Domain :	bhel.abcprocure.com	
Parent department:	BHEL Trichy	

Unit name	:	BHEL Trichy			
Purchase group	:	FB M&S ReCondtion	RFQ/NIT/Enquiry Officer	:	SUBRAMANIAN S
Event ID	:	48169	RFQ/NIT/Enquiry no.	:	2682000003
Enquiry Date	:	10/10/2020 05:30:00			
Tender Description	:	RETROFITTING AND RECONDITIONING OF STC 25 CNC MACHINE			
Terms & Conditions	:	As per MCI circular dt 04.06.2020 (No.P-45021/2/2017-PP(BE-II), This Tender is for only local suppliers and Bidders to submit Annex-B(Local content declaration form) mandatorily for local supplier eligibility validation purpose .". . THIS TENDERWILL BE EVALUATEDFOR GRAND TOTAL PAKAGE. VENDOR SHOULD QUOTE FOR BOTH LINE ITEMS. NOT QUOTING ANY ITEM WILL DISQUALIFY THE OFFER FROM TENDER. . ATTACHMENTS: . ANNEXURE -I -PRE QUALFICATION CRITERIA . ANNEXURE-II - SPECIFICATION AND SCOPE OF SUPPLY/ WORKS . ANNEXURE : III - TERMS AND CONDITIONS OF THE ENQUIRY . ANNEXURE-B : (MAKE IN INDIA) SELF DECLARATION CERTIFICATE FROMAT . PERFORMANCE BANK GUARANTEE FORMAT (PBG) . .			
Product / service / work keywords	:	CNC machine spares,			
No. of Bid Parts	:	Multiple	Envelope	:	Techno-commercial bid , Price bid
Type of contract	:	Goods	Project duration / delivery or completion period	:	31.12.2020
Download document	:	Before login	RFQ floated under the policy	:	PP-PURCHASE POLICY
Estimated Category	:	G	Delivery/Location At	:	BHEL STORES, TRICHY
Delivery Date	:	31/12/2020 05:30:00	Inspection by Agency	:	BHEL ENGINEERS
Inspection Location	:	BHEL WORKS TRICHY	Min. bid required	:	3

Bid submission configuration

Bid evaluation	Grand Total Package	Bidding access	Open Tender
Base currency	INR	Bidding type	NCB/Indigenous

Key configuration

Pre-bid meeting	Don't allow

Dates configuration

Document downloading start date	13/10/2020 11:00:00	Document downloading end date	26/10/2020 11:00:00
Bid submission start date	13/10/2020 11:00:00	Bid submission end date	26/10/2020 11:00:00
Bid opening date	26/10/2020 11:30:00		

Document / EMD / Security fee detail

Document fees	Not required	EMD	Not required

Bidding forms

PART-II : PRICE BID

PRICE BID

MATERIAL DESCRIPTION	QTY	UNIT
Retrofitting of STC25 - Supply portion. Retrofitting and reconditioning of STC 25 CNC machine, as per the Qualifying Criteria in ANNEXURE I and Scope of supply as per ANNEXURE II.	1.00	SET
Retrofitting of STC25 - E&C portion. Retrofitting and reconditioning of STC 25 CNC machine, as per the Qualifying Criteria in ANNEXURE I and Scope of supply as per ANNEXURE II.	1.00	LE

Information for Online Participation

Bidder who wish to participate in this tender needs to procure Digital Certificate as per Information Technology Act-2000 using that they can digitaly sign their electronic bids. Bidders can procure the same from any or the CCA approved certifying agencies, or they may contact e-Procurement Technologies Ltd. at below mentioned address and they will assist them in procuring the same. Bidders who already have a valid digital Certificate need not to procure the same. In case bidders need any clarification regarding online participation, they can contact,

e-Procurement Technologies Ltd.
Corporate Office:
Address : A-201/208, Wall Street - 2, Opp. Orient Club,
Nr. Gujarat College, Ellis Bridge,
Ahmedabad - 380006, Gujarat(INDIA)

Digital Certificate Contacts

Contact Person : Mr. Himalay Vaishnav
Cell : +91-9099090830
Phone Nos. : +91-9099090830
Fax No :
e-Mail : info@abcProcure.com

Support Team Contacts

Contact Person : BHEL Support Team Ahmedabad
Cell : +91-9265562819
Phone Nos. : +91-79-68136849/50/48
Fax No :
e-Mail : Bhel.Support@abcProcure.com

Bidder who wish to participate in e-Tender need to fill data in predefined forms of Price bid available in respective tender only. After filling data in predefined forms bidders need to click on final submission link to submit their encrypted bid.Bidder need to submit Document Fees, EMD & Reference Documents in hard copy if such instruction are given by tendering authority.As Per the new Inter-operability guidelines released by Controller of Certifying Authorities(CCA), the Secured Socket Layer(SSL) certificate for a e-procurement application is generated on a new algorithm, SHA2.

Also, the Digital Certificates that will be applicable for these platforms have to be SHA2 algorithm complaint. For the same, the users have to ensure that they have Windows XP(SP3)/Windows Vista/Windows7 installed in their respective PC/Laptop.In case of Windows XP Service pack - 3, if you get any issue you can install the SSL patch, which is available at our download section of our e-Tender/e-Auction Portal and also at our corporate website www.abcprocure.com just below the label of "Knowledge section".

Fraud Prevention

Bidder along with its associate/collaborators/sub-contractors/sub-vendors/consultants/service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website http://www.bhel.com and shall immediately bring to the notice of BHEL Management about any fraud or suspected fraud as soon as it comes to their notice.

Preference to Make in India

Offers from Foreign vendors will not be considered.Offers of local vendors with less than the minimum local content as prescribed in this Tender will also not be considered.In the absence of any such information in the tender, the required minimum local content shall be 20%

For this procurement, Public Procurement (Preference to Make in India), order 2017 dated 15.06.2017 & 28.05.2018 and subsequent orders issued by the respective Nodal ministry shall be applicable even if issued after issue of this NIT but before finalization of contract/PO/WO against this NIT. In the event of any Nodal Ministry prescribing higher or lower percentage of purchase preference and/ or local content in respect of this procurement, same shall be applicable. Default margin of purchase preference shall be 20% to local suppliers with default minimum local content of 50%.

ENQUIRY / RFQ NO. 2682000003 – dt. 10.10.2020- RETROFITTING AND RECONDITIONING OF STC 25 CNC MACHINE

ITEMS AND DESCRIPTIONS

Item	Description	Unit	Quantity	Delivery Quantity
10	Retrofitting of STC25 - Supply portion Retrofitting and reconditioning of STC 25 CNC machine, Bay 0,Bldg 6 as per the Qualifying Criteria in ANNEXURE I and Scope of supply as per ANNEXURE II.	SET	1.000	1.00
20	Retrofitting of STC25 - E&C portion Retrofitting and reconditioning of STC 25 CNC machine, Bay 0,Bldg 6 as per the Qualifying Criteria in ANNEXURE I and Scope of supply as per ANNEXURE II.	AU	1.000	1.00

As per MCI circular dt 04.06.2020 (No. P-45021/2/2017-PP(BE-II), This Tender is for only local suppliers and Bidders to submit Annex-B (Local content declaration form) mandatorily for local supplier eligibility validation purpose.

THIS TENDERWILL BE EVALUATEDFOR GRAND TOTAL PAKAGE. VENDOR SHOULD QUOTE FOR BOTH LINE ITEMS. NOT QUOTING ANY ITEM WILL DISQUALIFY THE OFFER FROM TENDER.

ATTACHMENTS:

ANNEXURE -I - PRE QUALFICATION CRITERIA.

ANNEXURE-II - SPECIFICATION AND SCOPE OF SUPPLY/ WORKS.

ANNEXURE: III - TERMS AND CONDITIONS OF THE ENQUIRY.

ANNEXURE-B: LOCAL CONTENT DECLARATION FORM

Annexure-III

BHARAT HEAVY ELECTRICALS LIMITED
(A GOVT.OF INDIA UNDERTAKING)
HIGH PRESSURE BOILER PLANT
TIRUCHIRAPPALLI-620 014

TERMS AND CONDITIONS OF THE ENQUIRY (TWO PART BIDS)

1.	The tender will be operated on **Two part bids basis** i.e. Part **I -Techno-Commercial Bid & Part II- Price Bid** in **EPS PORTAL** (https://bhel.abcprocure.com)ONLY.
2.	Part-I Techno-Commercial Bid : It contains Technical details, specifications, commercial terms and conditions Taxes, delivery terms, delivery schedule, validity of offer, payment terms (except price details), acceptance for LD clause, RP clause etc. as per ANNEXURE-III.
3.	Part-II Price Bid : It contains the input form for quoting price for all the enquired items in EPS PORTAL(https://bhel.abcprocure.com).
4.	This Tender is hosted in EPS portal & offer to be submitted through EPS portal only. You are requested to submit your 2 parts offer before due date & time given in RFQ through **EPS PORTAL** (https://bhel.abcprocure.com) only.
5.	Tender should not be addressed to any individual's name / designation.
6.	Attached documents/tenders should be free from CORRECTION AND ERASURES. Any correction in any attached document should have been attested. If there is such discrepancy in an offer, the same shall be conveyed to the bidder with target date up to which the bidder has to send his acceptance on the above lines and if the bidder does not agree to the decision of the purchaser, the bid is liable to be ignored
7.	Please submit point wise compliance to our specifications, terms and conditions. Otherwise it will be presumed that you are accepting BHEL's terms and conditions. Please ensure that all terms & conditions are filled. **Commercial terms agreed in Part-1 Techno commercial Bid table of ABC portal is final, anywhere else mentioned will not be considered.**
8.	Offer(s) received **after due date and time** as mentioned in EPS portal will not be considered under any circumstances.
9.	If the due date of tender opening happens to be a holiday, those tenders will be opened on future working day for which corrigendum will be issued.
10.	Documents submitted with the offer shall be signed and stamped in **each page** by authorized representative of the bidder
11.	The bidder shall submit his response through bid submission to the tender on EPS website at https://bhel.abcprocure.com. The bidder would be required to register on the EPS website at https://bhel.abcprocure.com and submit their bids online. SEALED COVER BIDS / E-MAILS / FAX / MANUAL OFFERS WILL NOT BE ACCEPTED
12.	Normally offer to be submitted within due date only. Any tender due extension request to be given on or before **48hrs** of due date & time

13.	**Validity** of quoted rates should be maintained minimum for **120 days** from the date of Tender opening for ordering (Technical Bid). The quoted/Finalized rates shall be Firm till completion of the supplies
14.	The rates are to be quoted on **F.O.R. BHEL TRICHY STORES / BHEL THIRUMAYAM STORES (Refer Enquiry for delivery locations)** basis ONLY which includes Packing & Forwarding charges, Freight & Insurance charges. All the items should be supplied at our STORES, BHEL –TRICHY / THIRUMAYAM (wherever applicable) at your own cost. **Offers with any other delivery conditions is not acceptable**. **IMPORTANT NOTE:** Delivery condition like **Ex-works / Ex-godown / Transportation of materials through transport carriers from your works up to the transport carrier's** office at **TRICHY OR THIRUMAYAM wherever applicable** and taking delivery of goods by BHEL from such office of transport carriers is **not acceptable** to us).
15.	**Payment Terms** **1). For Indigenous (Non-MSE) Bidders:** ○ ***Payment Terms for Supply**: 80% Payment after receipt and acceptance of material. Balance 20% within 45-90 days after receipt, acceptance and commissioning of supply material against submission of PBG 10% order value* ○ ***Payment Terms for service:** 100% payment on successful completion of Erection & Commissioning and service sheet certificate provided by the user.* ○ Any deviation in the above payment terms, any other conditions in payment terms or any other Payment Terms will not be accepted and offer will not be considered. ○ *Payment term is 100% direct EFT payment after 60 days from the date of receipt and acceptance of materials and against 10% PBG valid for the warranty period, **wherever necessary**.* ○ The duplicate copy of the invoice meant for the transporters should accompany the material as stipulated under C.E. rules 52a and 173c (or) 57gg. A Photostat copy of the above invoice for each Delivery Challan should be submitted along with the original bills routed through bank or submitted directly to BHEL. **2). New Suppliers**: ○ For new suppliers not registered with BHEL Trichy for the product, payment shall be made **60 days** after receipt and acceptance of materials.
16.	**Liquidated Damages / Penalty: -** The delivery of the goods specified in the purchase order should be made within the time prescribed. LD for delay in 'Supply' and/or 'E&C' (E&C wherever if applicable) will be applicable to the delays attributed to vendor. LD will be considered separately for 'Delivery' and 'E&C' (E&C wherever if applicable). Where the seller supplies or dispatches the goods, beyond the delivery period Liquidated damages shall be applicable 0.5% of the total order value per week or part thereof subject to a maximum of 10% of the total order value. ** In case of single delivery date, Order should be completed 100% for processing the bill, otherwise LD will be calculated based on Total PO Value restricted to Max % as mentioned in the PO Condition column Material Despatched after Due date: Once the delivery due date is crossed, bills have to be clubbed till final despatch and forwarded for processing of payment as a single bunch. LD percentage will be calculated from Delivery due date to final despatch date. The rate of LD for delayed E&C shall be @ 0.5% per week of delay of total PO value (Supply + E&C) in E&C subject to a maximum of 10% of total PO value (Supply + E&C). Penalty on delay in 'Supply' and/or 'E&C' will be applicable to the delays attributed to vendor. Penalty will be considered separately for 'Supply' and 'E&C'.

	The rate of penalty for delayed Supply shall be @ 0.5% per week of delay of total PO value (Supply + E&C) in supply subject to a maximum of 10% of total PO value (Supply + E&C). The rate of penalty for delayed E&C shall be @ 0.5% per week of delay of total PO value (Supply + E&C) in E&C subject to a maximum of 10% of total PO value (Supply + E&C). Maximum penalty for delay in Supply and E&C together shall be limited to 10% of total PO value (Supply + E&C). For staggered delivery schedule (if BHEL accepts), LD shall be 0.5% of the undelivered portion per week of the delay or part thereof subject to a maximum of 10% of the total order value. Any deviation from the above LD clause, loading will be applied to the extent to which it is not agreed by the bidder (at offered value).
17.	**RISK PURCHASE:** The purchaser at his option will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the seller either the whole of the goods or any part which the previous supplier has failed to deliver or dispatch within the time stipulated as aforesaid or if the same were not available, the best and the nearest available substitutes therefore. The supplier shall be liable for any loss, which the purchaser may sustain by reason of such risk purchases in addition to penalty at the rate mentioned in our LD clause. Risk Purchase clause will be applicable. Deviated offers with non-acceptance of Risk Purchase clause will lead to rejection of offer.
18.	**PREFERENTIAL DELIVERY:** (Applicable in the case of BHEL's Enquiry specifies Preferential Delivery in the Special Instructions) It should be noted if a contract is placed on a higher tendered as a result of this invitation to tender in preference to the lowest acceptable offer in consideration of the earlier delivery, the seller will be liable to pay to the purchaser the difference between the contract rate and that of the lowest acceptable tender on the basis of final price F.O.R destination, including all elements of freights, Sales tax, duties and other incidents, incidental in case of failure to complete supplies in terms of such contract within the date of delivery specified in the tender and incorporated in the contract, such difference amount in addition to penalty at the rate mentioned in our LD clause.
19.	**Make in India:** i) Offers from Foreign vendors will not be considered. Offers of local vendors with less than the minimum local content as prescribed in this Tender will also not be considered. In the absence of any such information in the tender, the required minimum local content shall be 20%. ii) For this procurement, Public Procurement (Preference to Make in India), order 2017 dated 15.06.2017, 28.05.2018 & 04.06.2020 issued by DPIIT and subsequent orders issued by the respective Nodal ministry shall be applicable even if issued after issue of this NIT but before finalization of contract/PO/WO against this NIT. iii) In the event of any Nodal Ministry prescribing higher or lower percentage of purchase preference and/ or local content in respect of this procurement, same shall be applicable. iv) Default margin of purchase preference shall be 20% to local suppliers with default minimum local content of 50%. v) "For this procurement, the local content to categorize a supplier as **Class I local supplier/ Class II local Supplier/ Non-Local supplier** and purchase preference to Class I local supplier, as defined in Public Procurement (Preference to make in India), **Order 2017 dated 04.06.2020** issued by DPIIT. vi) In case of subsequent orders issued by the nodal ministry, changing the definition of local content for the items of the NIT, the same shall be applicable even if issued after issue of This NIT, but before opening of part-II bids against his NIT" vii) For more details, pls. refer the Public Procurement (Preference to Make in India), order 2017 dated 15.06.2017 & 28.05.2018 and subsequent orders issued by the respective Nodal ministry. viii) Self-Declaration format as per **Annexure-B** shall be submitted along with **part-1** tender document
20.	BHEL reserves its right to reject a tender due to unsatisfactory past performance in the execution of a contract at any of BHEL projects / Units
21.	If **Guarantee / Warranty** period is applicable as per tender specification, No deviation is permitted and deviated offers are liable for rejection
22.	Supplier has to ensure quoting of price very carefully in EPS PORTAL to avoid any discrepancies
23.	While quoting price, it will be ensured that all terms & conditions as per GST act is followed.

24.	TAXES AND DUTIES: GST IN no, HSN CODE, GST rate for each items are to be quoted
25.	On the due date of tender opening, the **technical bids will be opened**. Bids will be evaluated by us and clarifications required, if any, will be called for from the bidders on technical and commercial points
26.	After tender opening Technical scrutinisation of the offers will be done.
27.	Bidders has to meet our technical specification and PQC is essential for consideration of their offer.
28.	Tender evaluation will be carried out on the basis of Technical Specifications and Commercial Terms and Conditions specified in the tender documents and changes thereof (if any) will be communicated to all bidders
29.	For verification of data submitted towards evaluation of bidder's capability, BHEL may decide to visit the bidder(s) works. Any fact found deviating from submitted data shall make the bidder liable to be disqualified.
30.	The correspondence between the bidder and BHEL through email is considered as valid document Legally though not signed. It is treated as valid confirmations made on behalf of the respective company and comes under the legal ambit of the business transaction and hence binding on both the parties. If any discrepancies found in the Techno-commercial bid and price bid, the final terms will be finalised after clarification sought through mail/EPS portal by BHEL will be considered.
31.	**Cost Evaluation:** Evaluation will be done on the basis of "Landed cost to BHEL TRICHY STORES or THIRUMAYAM wherever applicable**".** BHEL will consider the ranking after the loading is applied as referred above, wherever deviations are observed Ranking (L-1, L-2 etc.) will be done only for the Techno-Commercially acceptable offers. Normally BHEL reserves the right to place order for individual items with different vendors. At special circumstance ranking shall be done on compatible basis which will be indicated through Enquiry special instruction General Notes. **The evaluation currency for this tender shall be INR**
32.	In the event of more than one vendor becoming L1 for any of the item / items, the enquiry quantity for those item / items will be shared equally among all the L1 vendors.
33.	If the quoted prices by the L1 suitable vendors for net cash out flow to BHEL is same and quantity splitting is not feasible, in such case revised price bid may be asked from those respective suppliers for the respective item/items. (Wherever, if applicable)
34.	BHEL reserves the right to increase or decrease the tender quantity and split up the tender quantity among more than one vendor at the lowest acceptable price to BHEL and place order accordingly in any proportion at our own discretion
35.	Lowest price received against BHEL tenders need not be the technically acceptable one and in that case BHEL reserves the right not to consider the same. The purchaser shall be under no obligation to accept the lowest or any other tender and shall be entitled to accept or reject any tender in part or full without assigning any reason whatsoever. (Wherever if applicable)
36.	BHEL reserves the right to negotiate or re-float the tender opened, if L1 price is not the lowest acceptable price to BHEL due to inter-alia other reasons. (Wherever if applicable).
37.	**IMPORTANT NOTE:** BHEL will consider the ranking after the loading is applied as referred above wherever deviations observed in Payment Terms & LD clause.
38.	Any other conditions which might have been quoted by the seller and are in contravention to the terms prescribed in the order and which have not been specifically accepted by purchaser in written will not be applicable to the contract

39.	**Special Provisions for Micro and Small Enterprises (MSE)** The bidder may also be a Micro and Small Enterprises (MSE) vendor registered as per MSE act. As per the public procurement policy notified by the Central government. 25% of the tendered quantity is earmarked for MSE suppliers in this tender. Out of the 25% tendered quantity reserved for MSE suppliers, 4% shall be earmarked for procurement from MSE owned by SC / ST entrepreneurs. Also 3% shall be earmarked for procurement from MSE owned by women (Such enterprise will have to submit relevant document for proof of women ownership) (Note: vendor need to go through General Note of tender condition also for any special instruction & deviation from above.) In case MSE vendor participating in the tender quotes within the price band of L1 + 15%, they will be allowed to supply the portion of the requirement subject to acceptance of L1 price by MSE vendor. In case of more than one such MSE, the supply shall be shared proportionately. **UDYAM Registration** As per Gazette Notification no. S.O. 2119(E) dated 26.06.2020 issued by Ministry of MSME regarding change in definition of Micro, Small & Medium Enterprises (MSMEs) applicable w.e.f. 01.07.2020, you are hereby requested to obtain 'UDYAM Registration' and submit the same. Non submission of such documents will lead to consideration of their bid at par with other bidders. In case any improper / lack of documents is there, vendor on their own interest may submit all the relevant documents as stated above before tender opening. No benefit shall be applicable for this enquiry if any deficiency in the above required documents are not submitted before tender opening. **Documents should be notarized or attested by a Gazetted officer for consideration of MSE certificate**. " Such Micro/Small Enterprises registered vendors must state the sub-category to which they belong and submit documentary proof for the same. The sub-categories: (a) Enterprises owned by Scheduled Castes. (b) Enterprises owned by Scheduled Tribes. (c) Enterprises owned by Women (d) Enterprises owned by other than above two categories The enterprises under (a), (b) & (c) means the proprietor in case of single owned firm and all partners in case of partnership firm and all directors in case of private/public limited must belong to SC/ST category or women (Such enterprise will have to submit relevant document for proof of SC/ST or women ownership category) (Note: vendor need to go through General note Of tender condition also for any special instruction & deviation from above.) If more than one valid MSE supplier stands with in rage of L1+15% range, 25% of quantity will be shared till quantity split is feasible & rest of 25% will be awarded to lowest quote of valid MSE supplier. **Note**: Wherever for splitting of order, if splitted quantity comes out <1, the splitting of order will not be feasible. (For MSE vendors). Further updates or any changes will be taken decision according to MSE procurement policy. Traders will be excluded from the above MSE benefit as per MSE public procurement policy. In order to get MSE benefit, MSE supplier will have to submit the **UDAYAM RIGESTRATION CERTIFICATE** and will be considered after updating in BHEL. Payment for MSE Indigenous eligible vendors will be as per MSMED Act 2006 subject to fulfilment of above procedure.
40.	Equipment will be inspected and proved at vendor's works prior to dispatch, if applicable as per tender condition. However final inspection and acceptance of equipment will be after installation at BHEL,TRICHY or THIRUMAYAM wherever applicable
41.	**PACKING AND MARKING**: The supplier shall arrange for securely protecting and packing the stores to avoid loss or damages during transit. (Wherever if applicable).
42.	Erection / commissioning charges , if applicable as per tender condition will be clearly mentioned in the offer or else confirmation that Erection / commissioning shall be done at free of cost is available in the offer

43.	Any warranty replacement during warranty period shall be supplied free of charge on **FOR BHEL, TRICHY or THIRUMAYAM** basis
44.	The vendor shall provide necessary drawings, Test Certificates and Operating Maintenance Manuals etc., as called for in the Technical Specification, in the required number of copies at no extra cost
45.	In case of any short shipment in the main equipment / spares, where separate rates are not available in the contract, the customs duty levied on such supplies, shall be borne by the supplier / Indian agent.(**For import supplies**)
46.	**ARBITRATION:** All disputes or differences whatsoever which may arise at any time during execution of the Contract shall be mutually settled by BHEL Trichy and Vendor as per provision of the Contract. However, in the event such disputes cannot be settled mutually, such disputes shall be settled as per the Arbitration and conciliation Act, 1996 of the Govt. of India and its subsequent amendments. In case of disputes with the Central PSUs, the same shall be settled at **Tiruchirappalli** as per the Guidelines of the Govt. of India. However, during the period such disputes are settled either by mutual discussions between the parties or by legal means, Vendor shall continue to do the work as per terms & conditions of Contract. Any dispute arising out of or in connection with this Agreement shall be finally settled by binding arbitration in accordance with the Arbitration and Conciliation Act, 1996 as may be amended from time to time. Executive Director / BHEL, Trichy – 620 014 or his authorized representative shall be the Sole Arbitrator and his decision shall be final and binding on both the parties. The place of arbitration shall be Tiruchirappalli, and the language shall be English. The courts at Tiruchirappalli shall have exclusive jurisdiction on any dispute arising out of or in connection with this Agreement, if intervention of court is warranted, subject to the arbitration provided above.
47.	**FRAUD PREVENTION POLICY:** The bidder along with its associate/ collaborators/ sub-contractors/ sub-vendors/ consultants/ service providers shall strictly adhere to BHEL fraud prevention policy displayed on BHEL website http://www.bhel.com and shall immediately bring to the notice of BHEL management about any fraud or suspected fraud as soon as it comes to their notice
48.	**IN THE EVENT OF FORCE MAJEURE:** i) Notwithstanding the provisions contained in other clauses, the supplier shall not be liable for imposition of any such sanction so long the delay and/or failure of the supplier in fulfilling its obligations under the contract is the result of an event of Force Majeure. For purposes of this clause, Force Majeure means an event beyond the control of the supplier and not involving the supplier's fault or negligence and which is not foreseeable and not brought about at the instance of the party claiming to be affected by such event and which has caused the non – performance or delay in performance. Such events may include, but are not restricted to, wars or revolutions, hostility, acts of public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restrictions, strikes excluding by its employees, lockouts excluding by its management, freight embargoes and Acts of GOD. ii) If a Force Majeure situation arises, the supplier shall promptly notify the Purchaser/Consignee in writing of such conditions and the cause thereof within twenty-one days of occurrence of such event. Unless otherwise directed by the Purchaser/Consignee in writing, the supplier shall continue to perform its obligations under the contract as far as reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event. iii) If the performance in whole or in part or any obligation under this contract is prevented or delayed by any reason of Force Majeure for a period exceeding sixty days, either party may at its option terminate the contract without any financial repercussion on either side. iv) In case due to a Force Majeure event the Purchaser/Consignee is unable to fulfil its contractual commitment and responsibility, the Purchaser/Consignee will notify the supplier accordingly and subsequent actions taken on similar lines described in above sub-paragraphs
49.	In order to protect the commercial interests of BHEL, it becomes necessary to take action against suppliers / contractors by way of suspension of business dealings, who either fail to perform or are in default without any reasonable cause, loss of business / money / reputation, indulged in malpractices, cheating, bribery, fraud or any other misconducts or formation of cartel so as to influence the bidding process or influence the price etc. Guide- lines for Suspension of Business Dealings with Suppliers / Contractors shall prevail over which is available at BHEL website http://www.bhel.com.
50.	The offers of the bidders who are under suspension as also the offers of the bidders, who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL web site www.bhel.com.
51.	The quality of the supplies should strictly conform to Technical specifications applicable for the item. The offer should specifically confirm this

52.	If any quality problem is pointed out by any BHEL unit w.r.t. supplied material, the same shall be settled and corrected immediately with the concerned BHEL unit, by the supplier. If the material cannot be accepted by BHEL, supplier has to replace the material with no extra cost. Collection of rejected material will be sole responsibility of the supplier. If there is any failure by the supplier to settle such quality problems, the matter will be considered very seriously and appropriate penal action may be initiated against the respective supplier
53.	Bidders have to confirm that, whether they have been black-listed / kept on hold / given Business holiday for a specified period by any Public Sector Undertaking or Government Departments/any other units of BHEL. The reasons for such action with details and the current status of such hold shall be clearly furnished to BHEL. If no such details are mentioned in the offer, it will be construed that the bidder is not under any such hold. However, at a later date if it comes to the notice of BHEL about any such hold under enforcement, BHEL reserves the right to reject the offer at any point of time and also under any stage of the finalization of the tender. Such bidders will not be permitted to participate in the further tender proceedings and will be communicated suitably.
54.	BHEL shall be at liberty to accept any tender, part or in full, at their discretion without giving any reason
55.	Unloading at BHEL Unit / Site has to be done by the **SUPPLIERS** only. BHEL will not be in a position to provide any handling / unloading facilities.
56.	The supplier shall arrange for securely protecting and packing the material to avoid loss or damages during transit.
57.	There is no minimum quantity for placement of purchase order.
58.	BHEL shall be at liberty to cancel the requirement as per tender partially or fully at any stage, without giving any reasons partially or fully.
59.	In case of receipt of order vendor will need to send consignment/material as indicated in PO. In case of dispatch by courier/ Lorry kindly put/paste the Delivery challan (extra copy) on the top of packed consignment box & another copy of DC inside the box. Consignment should be forwarded to the PO **consignee address only** along with extra/Xerox copy of invoice (wherever applicable) .It should be supported with Delivery challan copy. **(Kindly do not forward any consignment to purchase dept. or do not address the consignment to the name of any official)**
60.	Vendor's confirmation for any terms & conditions should be uniform throughout the offer. In case any discrepancies is found in the quoted terms & conditions & Vendor's own format of quotation BHEL reserves the right to consider terms mentioned in Annexure-III
61.	Vendor may View Bill Status in www.bheltry.co.in -> materials management systems - > login id - Vendor Code and Password
62.	For the New vendors- In case of ordering bills against the PO shall be processed only on receipt of the following: a) Send the hard copy of EFT Format (will be informed at the time of PO) duly filled-in in a Single Page with all the certification formalities by you & your bankers b) One Cancelled cheque of your account (from the concerned bank) must be sent. c) The Vendor's code as per PO & address must be as per billing address mentioned in PO.
63.	If winning bidder who gets the order are unable to login or still if you have any difficulty kindly let us know.
64.	**Authorization for participation in EPS portal through DSC: E-Tender.** **Participation requirements**: Either Principal or authorized agent shall register their Digital Signature Certificate (DSC) (Class 3- SHA2- 2048 BIT- SIGNING & ENCRYPTION). Suppliers are advised to go through the FAQ available in the web portal (https://bhel.abcprocure.com). DSC shall be registered for the authorized person and all transaction done using that DSC against our tenders shall be taken as valid communication and shall be binding on principal/agent and is valid legally.

	<u>For foreign Principal</u> In case of Principal (being foreigner), they may apply for DSC through Indian embassy at their country and can register with us for participating in E-tenders. Details of the applicable procedure is available in the webpage http://www.cca.gov.in/cca/. **<u>For Indian agent</u>** In case of agents participating/registering their DSC (of authorized person), it will be at the sole authorization of principal to their agents to participate on their behalf and all transactions done using that DSC against our tenders shall be known as valid communication and shall binding on principal and is legally valid.
65.	Since GST is implemented, the taxes & duties will prevail as per the government notification/ guidelines. Our Provisional GST registration no.**33AAACB4146P2ZL**. However, it will be mandatory to confirm from BHEL for this mentioned GST no. Suppliers may quote their GST no with valid proof in the quotation. Also before quoting of tender it is suggested to consider all the factors before quoting the tender in line with GST guidelines for input tax credit to arrive ranking of quoted suppliers.
66.	**<u>GST compliance for Indigenous suppliers:</u>** a. In Response to Tenders for Indigenous supplier will be entertained only if the vendor has a valid GST registration no which should clearly have mentioned in the offer. If any specific exemption is available, a declaration with due supporting documents need to be furnished for considering the offer. b. Supplier shall mention their GSTN registration number in all their invoices and invoices shall be in the format as specified/prescribed under GST laws. Invoices shall necessarily contain Invoice number (in case of multiple numbering system is being followed for billing like SAP invoice no, commercial invoice no etc., then the Invoice No which is linked/uploaded in GSTN network shall be clearly indicated), item description as per PO, Quantity, Rate, Value, applicable taxes with nomenclature (like IGST, SGST, CGST & UTGST) separately, HSN/ SAC Code, etc. c. All invoices shall bear the HSN Code for each item separately (Harmonized System of Nomenclature)/ SAC code (Services Accounting Code). d. A declaration to the effect that all invoice particulars are/were uploaded in the GSTN network/ portal & all tax liability as per GST rules and regulations have been and will be discharged, shall be mentioned in the invoice. If not mentioned in the invoice, a separate declaration shall be submitted as per the requirement of BHEL. e. All documents like Mill Test Certificate, LR copy, Guarantee/Warrantee certificate, work completion certificate, any other document mentioned in PO, shall be sent along with the vehicle/consignment. For all consignments received within the calendar month, input credit will be availed within that month in line with monthly returns filing cycle. In case of any discrepancy in the document or non-submission of documents mentioned in the PO, then BHEL will not be able to accept or account the material, in such case availing of tax credit will be deferred to next month or so. f. In case of discrepancy in the data uploaded by supplier in the GSTN portal or in case of any shortages or rejection in the supply, then BHEL will not be able to avail the tax credit and will notify the supplier of the same. Supplier has to rectify the data discrepancy in the GSTN portal or issue credit note (details to be uploaded in GSTN portal) for the shortages or rejections in the suppliers, within the calendar month notified by BHEL. g. For any such delay in availing of tax credit for reasons attributable to supplier (as mentioned above), interest (calculated @ SBI Base Rate + 6%) along with penalty if any will be deducted for the delayed period i.e. from the month of receipt till the month tax credit is availed, from the running bills. h. Under GST regime, BHEL has to discharge GST liability on LD recovered from suppliers/contractors. Hence applicable GST shall also be recoverable from suppliers/contractors on LD amount. For this Debit note will be issued by BHEL indicating the respective supply invoice number. i. This is to inform that GST portion of invoice, shall be released only upon Vendor declaring such invoice in his GSTR-1 and receipt of goods and Tax invoice by BHEL and Confirmation of payment of GST thereon by vendor on GSTN portal. Alternatively, BG of appropriate value may be obtained from vendor which shall be valid At least one month after the confirmation of date of payment of GST by vendor on GSTN portal and receipt of Tax invoice and receipt of goods, whichever is later. Above is subject to receipt of goods/service and tax invoice thereof along with vendor declaring invoice in his return and paying GST within timeline prescribed for availing ITC by BHEL. j. That in case vendor delays Declaring such invoice in his return and GST credit availed by 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.

67.	**Tender terms for GST in line with new GST Return System:**

For supplies after implementation of New GST Return System i.e. from 01/10/2019, the following conditions will apply and supplier shall fully comply to the below points.

Indigenous suppliers:

1. *Response to Tenders for Indigenous supplier will be entertained only if the vendor has a valid GST registration No (GSTIN) which should be clearly mentioned in the offer. If the dealer is exempted from GST registration, a declaration with due supporting documents need to be furnished for considering the offer. Dealers under composition scheme should declare that he is a composition dealer supported by the screen shot taken from GST portal. The dealer has to submit necessary documents if there is any change in status under GST.*

2. *Supplier shall mention their GSTIN in all their invoices (incl. credit Notes, Debit Notes) and invoices shall be in the format as specified/prescribed under GST laws. Invoices shall necessarily contain Invoice number (in case of multiple numbering system is being followed for billing like SAP invoice no, commercial invoice no etc., then the Invoice No. which is linked/uploaded in GSTN network shall be clearly indicated), Billed to party (with GSTIN) & Shipped to party details, item description as per PO, Quantity, Rate, Value, applicable taxes with nomenclature (like IGST, SGST, CGST & UTGST) separately, HSN/ SAC Code, Place of Supply etc.*

3. *All invoices shall bear the HSN Code for each item separately (Harmonized System of Nomenclature)/ SAC code (Services Accounting Code).*

4. ***Invoices** will be processed only upon completion of statutory requirement and further subject to following:*

    Vendor declaring such invoice in Form GST ANX-1

    Receipt of Goods or Services and Tax invoice by BHEL

5. *As the continuous uploading of tax invoices in GSTN portal (in GST ANX-1) is available for all (i.e. both Small & Large) tax payers under proposed new GST Return System, all invoices raised on BHEL may be uploaded immediately in GST portal on despatch of material /rendering of services. The supplier shall ensure availability of Invoice in GST portal before submission of invoice to BHEL.Invoices will be admitted by BHEL only if the invoices are available in GSTN portal (in BHEL's GST ANX-2).*

6. *In case of discrepancy in the data uploaded by the supplier in the GSTN portal or in case of any shortages or rejection in the supply, then BHEL will not be able to avail the tax credit and will notify the supplier of the same. Supplier has to rectify the data discrepancy in the GSTN portal or issue credit note or debit note (details also to be uploaded in GSTN portal) for the shortages or rejections in the supplies or additional claims, within the calendar month informed by BHEL.*

7. *In cases where invoice details have been uploaded by the vendor but failed to remit the GST amount to GST Department (Form PMT-08 or Form GST RET-01 to be submitted) within stipulated time, then GST paid on the invoices pertaining to the month for which GST return not filed by the vendor will be recovered from the vendor along with the applicable interest (currently 24% p.a) and all subsequent bills of the vendor will not be processed till filing of the GST return by the vendor*

8. *In case GST credit is denied to BHEL due to non-receipt or delayed receipt of goods and/ or tax invoice or expiry of timeline prescribed in GST law for availing such ITC, or any other reasons not attributable to BHEL, GST amount claimed in the invoice shall be disallowed to the vendor.*

9. *Where any GST liability arising on BHEL under Reverse Charge (RCM), the vendor has to submit the invoices to BHEL well within the timeline prescribed in GST Law, to enable BHEL to discharge the GST liability. If there is a delay in submission of invoice by the vendor resulting in delayed payment of GST by BHEL along with Interest, then such Interest payable or paid shall be recovered from the vendor.*

10. *Under GST regime, BHEL has to discharge GST liability on LD recovered from suppliers/contracts. Hence applicable GST shall also be recoverable from suppliers/contractors on LD amount. For this Tax Invoice will be issued by BHEL indicating the respective supply invoice number.*

GST TDS will be deducted as per Section 51 of CGST Act 2017 and in line with Notification 50/2018 – Central Tax dated 13.09.2018. GST TDS certificate which will be generated in GST portal subsequent to vendor accepting the TDS deduction in the GST portal, will be issued to the vendor.

68.	**Imports and Input Tax Credit (ITC):** In GST regime, input tax credit of the integrated tax (IGST) and GST Compensation Cess shall be available to the importer and later to the recipients in the supply chain, however the credit of basic customs duty (BCD) would not be available. In order to avail ITC of IGST and GST Compensation Cess, an importer has to mandatorily declare GST Registration number (GSTIN) in the Bill of Entry. Provisional IDs issued by GSTN can be declared during the transition period. However, importers are advised to complete their registration process for GSTIN as ITC of IGST would be available based on GSTIN declared in the Bill of Entry. Input tax credit shall be availed by a registered person only if all the applicable particulars as prescribed in the Invoice Rules are contained in the said document, and the relevant information, as contained in the said document, is furnished in FORM GSTR-2 by such person. Customs EDI system would be interconnected with GSTN for validation of ITC. Further, Bill of Entry data in non-EDI locations would be digitized and used for validation of input tax credit provided by GSTN. Customs EDI system would be interconnected with GSTN for validation of ITC. Further, Bill of Entry data in non-EDI locations would be digitized and used for validation of input tax credit provided by GSTN. **Note: In cases where imported goods are liable to Anti-Dumping Duty or Safeguard Duty, calculation of Anti-Dumping Duty or Safeguard duty would be as per the respective notification issued for levy of such duty. It is also clarified that value for calculation of IGST as well as Compensation Cess shall also include Anti-Dumping Duty amount and Safeguard duty amount**
69.	Wherever Service is associated in the tender scope (For cases Service PO is released – Supplier has to pay GST for all charges including transportation, boarding etc.)
70.	Suppliers will have to fill& send the SRF (Supplier registration form) if applicable.
71.	BHEL reserve the right for asking sample / drawing approval / Pre-Dispatch Inspection before bulk supply of the materials (If required)
72.	GST CREDIT: Suppliers are advised to get registered to GSTN portal. Tenderer under "GST credit" shall be preferred
73.	Pay procedure will be initiated after acceptance of full lot of material & final submission of Bill in line with PO instructions &conditions, GST regulations. Also Pay procedure will be initiated only if the GST return is filed against submitted invoice to BHEL.
74.	***BILL PROCESSING METHOD"*** "Supplier has to ensure the full quantity of material delivery within given PO delivery date to process the bill for payment. In case supplier fails to deliver full quantity within delivery date, bills received after PO delivery date will be processed after final despatch of the total pending supply. Further, bills will be clubbed and forwarded for payment processing as a single bunch".
75.	For more details please refer to Ref. NIT of BHEL's website **http://www.bhel.com** (tender notification page) or from the govt. tender website **http://tender.gov.in** (Public Sector Units Bharat Heavy Electricals Limited page) or CPP portal **https://eprocure.gov.in/eprocure/app**. ***Important:*** All updates, amendments, corrigendum etc., if any will be posted only on the above website as and when required. There will be no publication of the same through any other media.
76.	For any clarification you can contact to *mpraja@bhel.in*, *subramanian.s@bhel.in* Contact nos. **04312574750 / 04312577427**

Retrofitting and reconditioning works in STC-25 CNC machine

ANNEXURE I

PRE QUALIFICATION CRITERIA

S.No	Description	Vendor comments
	Vendors who satisfy the following pre qualification criterion are only eligible to participate.	
1	The vendor shall have experience of having successfully carried out CNC retrofitting & reconditioning work in India. Experience of having successfully completed similar works during last 7 years (ending last day of month previous to the one in which applications are invited) should be either of the following: - a. Three similar completed works, each costing not less than the amount INR 11 lakhs. or b. Two similar completed works, each costing not less than the amount INR 14 lakhs. or c. One similar completed work costing not less than the amount INR 23 lakhs. "Similar work" here means CNC retrofitting / reconditioning of machine tools. Documentary evidences like PO copy, Final MOM or Completion Report to be submitted in support of the above.	
2	The vendor should submit at least one **Performance Certificate** issued by customer regarding satisfactory performance of the retrofitted CNC machine within the last 7 years. (Hardcopy of the certificate or through Email directly from the customer). Copies of purchase orders/work orders should also be submitted for verification.	

Retrofitting and reconditioning works in STC-25 CNC machine

ANNEXURE II

Specification and Scope of Supply / Work

S.No	Description	
1	**DETAILS OF THE EXISTING MACHINE AND ITS SYSTEMS**	
1.1	**CNC SYSTEM:** SIEMENS Make HINUMERIK 2000 CNC controlling 2 axes and 1 spindle	
1.2	**X AXIS SERVO MOTOR :** MOTOR: MAC093A-WS CONTR: TDM2.1-30-300-W0 I(CONT):22AMPS, I(PEAK):30AMPS N(OPERATE):2000RPM MA:250MV/A, INPUT: E1/2, RPM/VOLT2000/10	
1.3	**Z AXIS SERVO MOTOR** MOTOR: MAC093B-OS CONTR: TDM2.1-30-300-W0 I(CONT)-25A, I(PEAK)-30A N(OPERATE):2000RPM MA:250MV/A, INPUT: E1/2, RPM/VOLT2000/10	
1.4	**External encoder for X & Z axes** : HEIDENHAIN : 2500 PPR	
1.5	**Spindle motor :** 132D-B350L1-AS03-B2N1, Speed: 1500 RPM Spindle drive : KDV 3.3-150-3-A00-W1	
1.6	**External encoder for spindle :** SPINDLE ENCODER : 1024 PPR	
1.7	Centralized lubrication system for the guide ways - 3ø~ Induction motor 70W	
2	**SCOPE OF SUPPLY - ELECTRICAL ITEMS**	**Vendor to Confirm**
2.1	Supply of CNC Controller, able to perform all the machine functions. CNC PACKAGE: Latest version of CNC system with min 10.4" Colour display package only. CNC Makes acceptable: SIEMENS/FANUC/FAGOR The CNC system offered shall have the following features. 1. Full Alphanumeric Keyboard and Colour Display (TFT/LCD monitor) of size 10.4" or more. 2. MCP and other Operator controls having necessary Push Buttons with Indicating Lamps and Selector / Toggle Switches. 3. PLC configuration having at least 96 Inputs and 64 Outputs with necessary I/O cards. 4. Graphic Machining Simulation of tool paths in part programs and Real time simulation option. 5. Minimum 3MB user memory along with MIN 1 GB flash card facility for program storage. 6. Manual measurement and automatic storage of tool offsets in tool offset memory. 7. All turning operations and shall cater all existing machine features. 8. CNC data can be transferred quickly and easily using USB / Compact Flash (CF) card / Ethernet interfaces Note: 1. The CNC system being offered shall be available in the market for next 10 years and spares/service support shall be available for the next 15 years. 2. All features available in the old CNC system of the machine shall be made available in the new CNC being offered. 3. Service support shall be available in India. Details of the service centre facility available in India to be provided.	

2.2	Supply of AC servo motors of suitable capacity for X and Z axes with Built-in Brake (for both motors). Torque, speed and other motor parameters to match with the parameters of the existing AC servo motor as mentioned above and suitable to be interfaced with the CNC system offered. Mechanical interfacing arrangement required to match the new motor with the existing mechanical drive system should be included in the offer. The type number / model of the motor selected should be indicated in the offer. Makes acceptable: SIEMENS/FANUC/FAGOR	
2.3	Supply of new AC spindle servo motor of suitable capacity to replace the old spindle motor. The parameters of the offered motor to match with the existing motor and suitable to be interfaced with the CNC system offered. The type number / model of the motor selected should be indicated in the offer.	
2.4	Supply of AC digital servo amplifier modules for X and Z axes. The rating of the drive modules selected should support the selected servo motors. The type number / model of the drive module selected should be indicated in the offer and the technical leaflet should be enclosed.	
2.5	Supply of latest digital servo amplifier module for spindle with regenerative braking. The rating of the drive module selected should support the selected servo motor. The type number / model of the drive module selected should be indicated in the offer and the technical leaflet should be enclosed.	
2.6	Supply of external encoders for X and Z axes Make: Heidenhain/Fanuc/Siemens/Fagor, PPR: 2500	
2.7	Supply of external encoder with sufficient cable length for spindle. Make: Heidenhain/Fanuc/Siemens/Fagor, PPR: 1024	
2.8	Necessary transformers, line filter and reactor unit for the drive modules	
2.9	Supply of motor power cable, signal cable, external encoder feedback cables of sufficient length with end connectors for axes and spindle.	
2.10	Supply of necessary 24V SMPS units of Siemens/ Fanuc or other reputed make.	
2.11	Supply of new operating pendant for mounting the new CNC system and keyboard.	
2.12	Supply of new Electrical panel for mounting the drives, power supply units and other switchgears. The panel should have the following features. 1. The panel shall be metal enclosed, indoor, floor mounting and free-standing type of Rital make (or any other make acceptable to BHEL). The panel shall be free from flaws, dents and undulations. 2. All mating surfaces shall be provided with neoprene gaskets. Panel shall be provided with three point locking arrangement. Hardware used shall be chrome/ nickel - plated. The anti-vibration pad shall be of hard rubber. 3. Degree of protection of panel enclosure: IP 55 4. Removable cable entry shall be provided. 5. The bottom surface of the control panel should be free and no components should be mounted on it.	
2.13	Supply of air conditioning unit for the Electrical panel and operating panel of sufficient rating. Air conditioner shall be of following makes. i. M/s Advance Cooling System pvt ltd ii. M/s Werner Finley pvt ltd iii. M/s Rittal or any other reputed make acceptable to BHEL.	
2.14	Supply of Hand Held Unit along with 5 metres cable and adapter as required.	
2.15	Supply of suitable ratings of MCB, MPCB, contactors, relays, fuses and other control elements for all the auxiliary motors / equipments in the machine.	
2.16	Supply of new limit switches, pressure switches, proximity switches for the replacement of old sensors in the machine.	
2.17	Supply of oil flow switch of rating 2 LPM. Qty required: 2 nos	
2.18	Supply of Voltage Stabilizer of rating 40 KVA. Stabilizer shall be of following makes: NEEL, AEI, POWER AID, DELTA, Servo max (or any other make acceptable to BHEL)	
2.19	Supply of necessary cables, single/multi core wires, glands, sleeves, ferrules etc for complete rewiring of the m/c.	
2.20	Supply of new induction motor to replace the old hydraulic motor in the machine	

2.21	Supply of machine spindle area spot light , top side working area covered lighting , Panel area lighting, 24V handlamp.	
2.22	Supply of new turret encoder of reputed make to replace the existing turret encoder of the machine.	
2.23	Supply of tools for electrical maintenance of the machine. 1. Clamp meter - 1 no 2. Electrical maintenance socket set - 1 Set 3. Multimeter (AC/DC 0-800V) - 1 no 4. Allen key set (Inches) - 1 sets 5. Spanner set (inches) - 1 sets 6. Tap set with wrench drill bit - 2 sets	
2.24	Supply of tools for Chiller and AC maintenance 1. Clamp meter - 1 no 2. Air conditioning vacuum pump (Min 1/3 HP) - 1 no 3. Refrigerant leak detector - 1 no	
3	**SCOPE OF SUPPLY - MECHANICAL ITEMS**	
3.1	Supply of suitable brackets for mounting the new AC servo motors for axes and spindle.	
3.2	Supply of new Centralized lubrication system ALU-03 (CENLUB) or equivalent with piston distributors and copper tubing for the guide ways.	
3.3	Supply of necessary timing belts and pulley for all axes, V belts/multirib belt for spindle drive.	
3.4	Supply of X axis ball screw rod with C1 accuracy. Vendor to dismatle the ballscrew rod from the machine at BHEL works to take dimensions before manufacturing for one to one matching. Vendor to submit laser calibration report for ball screw.	
3.5	Supply of Z axis ball screw rod with C1 accuracy. Vendor to dismatle the ballscrew rod from the machine at BHEL works to take dimensions before manufacturing for one to one matching. Vendor to submit laser calibration report for ball screw.	
3.6	Supply of high pressure hydraulic hoses along with suitable end fittings.	
3.7	Supply of coolant hoses along with suitable end fittings	
3.8	Supply of X and Z axis ballscrew support bearings -1 SET	
3.9	Supply of chip conveyor gear box with suitable reduction ratio (200:1 approx.) along with motor.	
3.10	Supply of immersible coolant pump model no RV100/220 Make: Rajamane or its equivalent in any standard make.	
3.11	Supply of guideway wipers for X and Z axis-TWO SET	
3.12	Supply of taper lock coupling for X and Z axis drives.	
3.13	Supply of highspeed spindle grease ISOFLEX NBU 15 Make:Kluber (OR) equivalent in other standard make- TWO kg	
3.14	Supply of curvie coupling and seal kit for turret clamping. Vendor to take drawing by dismantling of turret assembly at BHEL works.	
3.15	Supply of all hydraulic valves, Pressure reducing valve and flow control valve, Pump, pressure gauge, pressure switch and filters . Vendor to take the list of valves at BHEL works.	
3.16	Supply of spindle bearing-1 set	
3.17	Supply of Maintenance Tools as mentioned below. a) Spanner set, allen key set, circlip plier - internal & external, screw driver set in suitable tool box - 2 SET b) Rachet type circlip plier (internal)for bore size 85 to 150 mm - 5 Nos c) Rachet type circlip plier (external)for shaft size 85 to 150 mm - 5 Nos d) Metric feeler gauge set with minimum blade size 0.001mm – 2 Nos. e) Circlip Plier straight with leaf spring (3 sizes, shaft size 25,50,75mm)-3 SET f) Circlip Plier bend with leaf spring (3 sizes, shaft size 25,50,75mm)-3 SET g) Hook spanners set model no: HN4, HN5-6, HN 7. HN8-9, HN10-11(Make: SKF or Equivalent) - 3 SET h) Axial lock nut sockets model no:TMFS 3 to 10 Make: SKF or Equivalent - 3 SET i) Grease gun - 2 Nos	
3.18	Supply of bearing set and seal kit for tailstock. Vendor to take the seal/bearing model no from the machine at the BHEL works.	

3.19	Supply of Hydraulic oil chiller unit for the machine. CAPACITY: 3000 Kcal/Hour Refrigerant : R134a/R407c Chiller shall be preferably of the following makes. i. M/s Advance cooling System pvt ltd ii. M/s Werner Finley pvt ltd iii. Emmppe Associates, Coimbatore iv. Sunbeam v. Rittal	
3.20	**Important point to be noted by the vendor:** **1. Any material not specified in the scope of supply but required for successful commissioning of the supplied electrical and mechanical materials in the scope of the contractor.** **2. Vendors are advised to visit HPBP BHEL, Tiruchirappalli, study the existing machine and assess the work content before submission of quotation.**	
4	**SCOPE OF WORK FOR RETROFITTING OF CNC SYSTEM, DRIVES AND MOTORS**	
4.1	**DESIGN & PREPARATION:**	
4.1.1	Preparation of new circuit diagram for complete electrical systems with the new CNC/ Drives/ Motor.	
4.1.2	Designing and preparation of brackets for X/Z and spindle motors.	
4.1.3	Preparation of machine dependent PLC software flow Diagram/Ladder diagram for all the machine functions.	
4.2	**DISMANTLING:** Disconnect existing CNC system/drives/motors/electrical, mechanical elements and other accessories.	
4.3	**ASSEMBLY:**	
4.3.1	Assembly of servo motors for X, Z and spindle with suitable mounting brackets.	
4.3.2	Erection and commissioning of the new Electrical Panel and Interfacing the machine control elements like limit switches, pressure switches, level switches, pushbuttons etc, with necessary wiring materials.	
4.3.3	Erection of the operating pendent and mounting the CNC system on it.	
4.3.4	Assembly of AC Drives and other switchgears in the new Electrical Panel.	
4.3.5	Mounting of X-Axis Rotary encoder, Z-Axis Rotary encoder and spindle Encoder.	
4.3.6	Complete electrical rewiring of the machine with new wiring materials.	
4.3.7	New supplied ball screw rod for X, Z axis and bearings set shall be assembled suitably.	
4.3.8	Supplied high pressure hydraulic hoses and coolant hoses shall be assembled with suitable end fittings.	
4.3.9	Installation of new lubrication system and necessary copper tubings with suitable end fittings for all axes lubrication.	
4.3.10	Dismantling and servicing of turret clamping cylinder, and assemble with new curvic coupling.	
4.3.11	Installation of supplied hydraulic valves and accessories in the machine and prove out of its proper functioning.	
4.3.12	Installation and commissioning of coolant pump circulation system.	
4.3.13	Dismantling, servicing of and assembling of tailstock with supplied seal and bearings.	
4.3.14	Installation and trouble free prove out of all supplied eletrical and mechanical items.	
4.4	**CNC INTERFACING AND PROVE OUT:**	
4.4.1	Interfacing the CNC system, drives, motors, lubrication system and other accessories to establish the complete functioning of the machine.	
4.4.2	X-Axis Rotary encoder, Z-Axis Rotary encoder and spindle Encoder to be replaced and interfaced with the new CNC system with necessary cables and connectors.	
4.4.3	Developing and prove out of PLC software to incorporate all the existing machine functions.	
4.4.4	Calibration of X and Z axis for positioning accuracy and repeatability Using Laser interferometer before and after work.	
4.4.5	The complete system will be integrated and proved out for performance With a standard test piece and also two regular production components.	
4.4.6	All the exisitng machine functions to be proved out.	

4.7	**DOCUMENTATION:** Three sets of the following documents to be supplied along with the retrofitting packages. 1) Original CNC system manual, drives manual, motor catalogues and also for the other bought out items. 2) Original programming manual for the CNC system 3) Original CNC Interfacing/ Installation/ Diagnostics Manuals. 4) Drives commissioning/ Trouble Shooting manuals for spindle and feeds. 5) Complete Electrical and Electronics wiring diagram as per retrofitting / modification. 6) Hardcopy of CNC parameter list, PLC programs / machine Data / Alarm Text messages. 7) All the mechanical assembly part drawings taken by the vendor. Supply of a) Three sets of manuals for the CNC system, servo motors, spindle motor, drives and manuals of bought-out components. b) Three sets of Electrical drawings for entire machine. c) Three sets of and PLC program	
4.8	**BACK UP:** The back up of PLC program and parameters to be given in CD as well as in flash card compatible with the CNC system.	
4.9	**TRAINING:**	
4.9.1	Training shall be given for 2 Maintenance personels on CNC Maintenance & for 2 Production personels on CNC Operation / Programming at the OEM's works for 5 days.	
4.9.2	Training to be imparted to BHEL personels on operation, programming and maintenance of the CNC machine at BHEL for 2 days.	
4.10	**GENERAL:**	
4.10.1	The equipments should be suitable for 415V, 3ph, 50Hz, a.c. supply	
4.10.2	Parties are advised in their own interest to visit BHEL, Trichy on any working day to inspect and study the machine before submitting their offer.	
4.10.3	Any other work (electrical, mechanical and electronics) not mentioned in this scope of work to keep the machine in working condition with all features as before starting the work are in the scope of the contractor.	
4.10.4	Materials used shall be of reputed make or as per IS standards.	
4.10.5	Party shall bring all tools and testing equipment with them during erection and commissioning.	
4.10.6	**Vendors are advised to visit HPBP BHEL, Tiruchirappalli, study the existing machine and assess the work content before submission of quotation.**	

ANNEXURE-B

/ On Bidder's office letter pad /

Self-Declaration

Enquiry No.	
Enquiry Date	

In line with Government public procurement order Number P-45021/2/2017-B.E-II dated 15.06.2017, and further modified order dt. 28.05.2018 & order 04.06.2020 issued by DPIIT

I / We hereby declare that I / We are a "Local Supplier" meeting the requirement of minimum local content (…….%) defined in the above government notification for the goods against above mentioned enquiry Number.

Details of location at which local value addition will be made is as follows:

Door No.	
Street / Address 1	
Street / Address 2	
District	
State	
Country	
PIN Code	

We also understand that the false declarations will be considered as breach of Integrity and liable for action.

For Company Name:
Seal:
Signature:

Date:
Place:

(Please fill all the yellow color field)

BANK GUARANTEE FOR PERFORMANCE SECURITY

(Non-Judicial Stamp paper/e-stamp paper of appropriate value as per Stamp Act prevailing in the State(s))

Bank Guarantee No:

Date:

To

NAME

& ADDRESSES OF THE BENEFICIARY

IFSC AND MICR CODE

Dear Sirs,

1. In consideration of Bharat Heavy Electricals Limited (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at ________________________[1] through its Unit at…………………..(name of the Unit) having awarded to (Name of the Vendor / Contractor / Supplier) (VENDOR CODE) with its registered office at__________[2] hereinafter referred to as the ' Vendor / Contractor / Supplier ', which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns), a contract Ref No……………………dated …………………………………[3] valued at Rs………..[4] (Rupees -----------------------)/FC………………(in words………..) for …………………………[5] (hereinafter called the 'Contract') and the Vendor / Contractor / Supplier having agreed to provide a Contract Performance Bank Guarantee, equivalent to ……% (…. Percent) of the said value of the Contract to the Employer for the faithful performance of the Contract,

2. we, …………………, (hereinafter referred to as the Bank), having registered/Head office at ……………. and inter alia a branch at ……….. being the Guarantor under this Guarantee, hereby, irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer any sum or sums upto a maximum amount of Rs ------------------- [6] (Rupees -----------------------) without any demur, immediately on first demand from the Employer and without any reservation, protest, and recourse and without the Employer needing to prove or demonstrate reasons for its such demand.

3. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. ________________.

4. We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Vendor / Contractor / Supplier in any suit or proceeding pending before any Court or Tribunal, Arbitrator or any other authority, our liability under this present being absolute and unequivocal.

5. The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment thereunder and the Vendor / Contractor / Supplier shall have no claim against us for making such payment.

6. We the ……………………bank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract/satisfactory completion of the performance guarantee period as per the terms of the Contract and that it shall continue to be enforceable till all the dues of the Employer under or by virtue of the said Contract have been fully paid and its claims satisfied or discharged.

7. We…………………..BANK further agree with the Employer that the Employer shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contract or to extend time of performance by the said Vendor / Contractor / Supplier from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said Vendor / Contractor / Supplier and to forbear or enforce any of the terms and conditions relating to the said Contract and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Vendor / Contractor / Supplier or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said Vendor / Contractor / Supplier or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

8. The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Vendor / Contractor / Supplier and notwithstanding any security or other guarantee that the Employer may have in relation to the Vendor / Contractor / Supplier's liabilities.

9. This Guarantee shall remain in force upto and including…………………………….. [7] and shall be extended from time to time for such period as may be desired by Employer.

10. This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Vendor / Contractor / Supplier but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms thereof.

11. Unless a demand or claim under this guarantee is made on us in writing on or before the ……………………………….[8]we shall be discharged from all liabilities under this guarantee thereafter.

12. Any claim or dispute arising under the terms of this document shall only be enforced or settled in the Courts at Tiruchirappalli.

13. We…………………. BANK lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Notwithstanding anything to the contrary contained hereinabove:

a) The liability of the Bank under this Guarantee shall not exceed………………………… [6]

b) This Guarantee shall be valid up to ……………. [7]

c) Unless the Bank is served a written claim or demand on or before (minimum 3 to 6 months from the expiry date [8] all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.

14. We, _____________ Bank, have power to issue this Guarantee under law and the undersigned as a duly authorized person has full powers to sign this Guarantee on behalf of the Bank.

For and on behalf of
(Name of the Bank)

Dated……………….
Place of Issue……………….

BANK EMAIL ID:

BANK PHONE NO:

AUTHORISED SIGNATORIES CELL PHONE NO:

BANK FAX NO:

[1] *NAME AND ADDRESS OF EMPLOYER I.e Bharat Heavy Electricals Limited*

[2] *NAME AND ADDRESS OF THE VENDOR /CONTRACTOR / SUPPLIER.*

[3] *DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE*

[4] *CONTRACT VALUE*

[5] *PROJECT/SUPPLY DETAILS*
[6] *BG AMOUNT IN FIGURES AND WORDS*

[7] *VALIDITY DATE*

[8] *DATE OF EXPIRY OF CLAIM PERIOD*