



**BHARAT HEAVY ELECTRICALS LIMITED**  
**HEEP HARIDWAR INDIA-PIN 249403**  
**FAX NO: 0091 1334 226462**  
**PHONE NO: 0091 1334 281561**

Enq. No.: T/6410/2015/3005D/2

Date of issue : 24/11/2015

M/S.....

Sub: BHEL-HEEP/OPEN-TENDER (COMPONENT)/2013

Dear Sir,

The Heavy Electricals Equipment Plant (HEEP) located in Haridwar, India is one of the major manufacturing plants of Bharat Heavy Electricals Ltd. The core business of HEEP includes design and manufacture of large steam and gas turbines, turbo generators and so on.

Sealed tenders with the Tender No. and opening date clearly super scribed on the cover are invited from the manufacturers (registered as well as unregistered) for the supply of the following items:-

Sl. No.	Tender No.	Description of Item	Qty.	Opening Date
1	T/6410/2015/3005D/2	<b>HW7799911832 BELT DRIVEN INTERNAL GRINDING SPINDLE SPECIFICATION:STT0076</b>	1 no.	<b>16/12/2015</b>

The details with required delivery are given in **Annexure-1**.

The tender documents can be downloaded from our web site [www.bhel.com](http://www.bhel.com) or [www.bhelhwr.co.in](http://www.bhelhwr.co.in), after downloading the tender documents from web site, while submitting the tender as detailed in "Instruction to Bidders", intending vendors must remit **tender fee of Rs. 2,000.00** against each tender along with the requisite EMD in the form of Cash (as permissible under Income Tax Act) / Pay Order / Demand draft. **EMD shall be Nil in this tender. EMD in the form of Cheque / Bank Guarantee are not acceptable. If EMD and/or tender fees are not submitted then the offer may be out rightly rejected.** As per notification reference no. NSIC/HO/GP/15(4)/2013-14 dated 07.07.2013 Micro & Small Enterprises (MSEs) is not required to submit EMD or tender fees. A certificate issued from competent authority shall be submitted in support of Micro & Small Enterprises (MSEs). BHEL will not be responsible for any type of postal delay / incomplete information from vendor.

Central / State – PSUs / Government departments are exempted from submission of EMD subject to approval by BHEL management.

**The date for opening of tender shall be 16.12.2015.** Tenders will be received up to 1.45 P.M. on 16.12.2015 and opened on the same day at 2.00 P.M. in the Tender Room. **Please note that tender received after due date & time (1.45PM on 16.12.2015) will not be REPEAT will not be opened.** BHEL will not be responsible for any type of postal / courier delay.

Specifications & Drawing of the above items are available on our above mentioned website with links provided for all Specifications, Drawings & Annexure (At the end of this document). Other cross referred documents can either be physically collected from BHEL, Haridwar or can be obtained by email [sanjeev-k@bhelhwr.co.in](mailto:sanjeev-k@bhelhwr.co.in) or [abhijeet@bhelhwr.co.in](mailto:abhijeet@bhelhwr.co.in) against proof of draft of the tender fee in favor of BHEL, Haridwar. This draft is to be submitted along with offer. Amendments/Corrigendum, if any, will be hosted on our web site only. Other terms and conditions will be as per tender documents.

**The total quantity may undergo change at the time of ordering.**

**Any vendor who is under hold (for the item)/ delisted/ banned with BHEL on the date of opening of Part – 1 should not quote for this tender. In case their offer is received, it shall be out rightly rejected.**

Please submit your Techno-Commercial offer only for the above requirement subject to our terms and conditions.

BIDS shall be opened at 2 PM on the due date in the presence of authorized representative of the bidders who may like to be present. The authorized representative should bring authority letter from their parent company (Manufacturer) for the specific tender no. attending the bid opening.

BHEL will forfeit the EMD if, the successful bidder / vendor refuses to honor the order after award of the same on him and / or withdraws his bid and / or unilaterally changes the offer and / or any of its terms & conditions within the validity period.

**KINDLY READ "INSTRUCTIONS TO BIDDERS." QUOTATION NOT IN ACCORDANCE WITH THE INSTRUCTIONS ARE LIABLE TO BE DISQUALIFIED AND IGNORED.**

## INSTRUCTIONS TO BIDDERS FOR OPEN TENDER

### 1.0 DEFINITION

Registered Vendors - Are those who are registered with BHEL, Haridwar for Megawatt rating/ Size/ Weight of tendered components in respective steel grade or machining of such components.

Un-registered Vendors - Are those who are not registered with BHEL, Haridwar for Megawatt rating/ Size/ Weight of tendered components in respective steel grade or machining of such components.

### 2.0 TECHNICAL QUALIFICATION

- Enclosed format – Annexure-2 to be submitted. It is the mandatory requirement. **Offer of Vendors not meeting these requirements may not be considered.**

### 3.0 ESSENTIAL INSTRUCTIONS

1. All un-registered vendors shall be approved by BHEL, if found suitable, on the basis of data furnished by them in Supplier Registration Form (SRF) Foreign Vendors or Indigenous Vendors. Vendor (s) shall not be considered for ordering if not approved by BHEL.
2. BHEL team may visit the vendor (s) works for verification of capability and capacity claimed in tender documents/offer (s).
3. The tenders shall be submitted in two parts as described below on or before the due date through hard-copy in Tender-room. Vendor Registration Form shall be submitted by unregistered vendors only.

i. Part I (Envelop I) – A. EMD & / or Tender Fee

or

Valid certificate towards exemption of EMD & tender fee, applicable for Micro and small Enterprises, as mentioned below:

MSE Suppliers can avail the intended benefits only if they submit along with the offer, attested copies of either EM II certificate having deemed validity (five years from the date of issue of acknowledgement in EM II) or valid NSIC certificate or EM II certificate along with attested copy of a CA certificate (format enclosed where deemed validity of EM II certificate of five years has expired) applicable for the relevant financial year (latest audited). Date to be reckoned for determining the deemed validity will be the date of bid opening (Part I in case of two part bid). Non submission of such documents will lead to disqualification of their offer. Documents should be notarized or attested by a Gazetted Officer.

B. Pre-Qualifying Requirement (PQR) – refer Annexure – 2.

C. Vendor Registration Form (SRF documents to be placed separately in part-I and not to be mixed with other documents).

D. Techno -Commercial Bid + Replica of Price bid (without prices).

ii. Part II (Envelop II) - Price Bid

4. The Quotation should be from the Principal / Original Manufacturer, failing which the quotation is likely to be ignored. However, if OEM / Principal insist on engaging the services of an agent, such agent shall not be allowed to represent more than one manufacturer / supplier in the same tender. Moreover, either the agent could bid on behalf of the manufacturer / supplier or the manufacturer / supplier could bid directly but not both. In case bids are received from both, the manufacturer / supplier and the agent, bid received from the agent shall be ignored. In Case the quotation is submitted through agent, the quotation must accompany original authorization letter from the Principal / Original Manufacturer.
5. The bidders will have to submit ink-signed offer / bid in original directly to BHEL. **Unsigned bids shall be ignored.**
6. The suppliers or their authorized person may be allowed to attend the tender opening, if duly authorized by their principals, through a specific letter for a particular enquiry or for specific price bid opening on that particular day. General authorization letter is not acceptable

7. Any corrections / amendments shall be properly & fully authenticated with signature. No overwriting is acceptable.
8. Compliance of technical/ commercial terms and conditions as per Annexure-3
9. Part-I will be opened on the date and time specified in the tender notice in the presence of those vendors who wish to attend.
10. Part – II (Price Bids) along with supplementary price bids, if necessary, will be opened at a later date of only those bidders who successfully qualify the PQR requirements and have submitted tender fees & /or EMD or valid certificate towards exemption of EMD & tender fee, applicable for Micro and small Enterprises & whose techno-commercial bid has been found acceptable.
11. Vendor to quote best possible deliveries in the offer. Offers of those vendors may not be considered if it is not found suitable to BHEL requirement.
12. Currency exchange rate will be applicable on the date of opening of Part-I for evaluation purpose.
13. Depending upon the delivery suitability, BHEL reserves the right to split order on more than one vendor.
14. Evaluation of Bid: - The bid shall be evaluated
  - a. Cost to BHEL basis. ( Basic Cost + Insurance + Transportation + Duty )
  - b. The loading, if any, on account of LD penalty, payment terms or any other cost determined at later stage, which shall be communicated to the vendor.
15. Tenders when finalized shall be in the name of the bidder only and change of name during tender evaluation (without certificate from registrar of company) and after submission of the tender is liable to make the offer ineligible for participation.
16. All test certificates / Guarantee certificates to be submitted in TRIPLICATE along with dispatch documents.
17. BHEL reserves the right to open the price bid (part-II) along with the opening of techno-commercial offer at its option and in that case vendor will be informed accordingly.
18. BHEL reserves the right to go for reverse auction. Vendors are requested to give their best price. In case of failure of reverse auction the paper bid shall be processed. Bidder should clearly indicate their acceptance for reverse auctioning in Annexure-3. The bids of those vendors who do not agree for reverse auction may not be considered. The Terms & Condition for Reverse Auctioning are given below.
19. Total weight -- /Gross / Net in Kg. & also package size essentially should be indicated if not exact then approximate.
20. BHEL will evaluate the technical bids against essential criteria/requirements. BHEL may seek clarifications, if required, from the qualified bidders only. These clarifications will be communicated to the eligible vendors. The offers of those bidders, who are unable to respond in specified time frame, are likely to be ignored.
21. SETTLEMENT OF DISPUTES
  - Indigenous Vendors: In all cases of dispute the matter shall be referred for arbitration to any arbitrator to be appointed by the Executive Director or any officer who is the administrative head of Bharat Heavy Electricals Ltd., at Haridwar. The venue of arbitration shall invariably be Ranipur Haridwar. The award of the arbitrator shall be final and binding on both the parties. The arbitrator shall have the power to extend, from time to time, the time for making his award with the consent of the parties.
  - Foreign Vendors: In the event of any dispute or difference arising between the parties to this contract regarding execution of same or their respective rights and liabilities there under, the same shall except as otherwise expressly provided therein, be referred to the arbitration of the two arbitrators, one to be appointed by each party; or in the case of the said arbitrators not agreeing then an umpire to be appointed by the two arbitrators in writing before entering on that reference and provisions of the Indian Arbitration Act ,1940 or any statutory notification, or re-enactment therefore and rules framed there under from time to time shall apply to such arbitration . If the two arbitrators do not agree on the appointment of umpire, the nomination of the umpire shall be done by the International Chamber of Commerce, Paris(France).The decision of arbitrators, or in case of their not agreeing, that of the said umpire shall be binding both on seller and purchaser. The venue of the arbitration invariably be New Delhi.
22. JURISDICTION
 

All question, dispute or differences arising under, out of or in connection with the purchase order shall be subject to the exclusive jurisdiction of Haridwar courts.
23. OVER RIDING CLAUSE
 

All stipulations made in any correspondence other than those exchanged in regards to “instruction” in our tender documents / enquiry for submission of your offer, if at all shall be void to the extent they are repugnant to the conditions contained herein above and in the purchase order.
24. FINALITY OF MANAGEMENT DECISION
 

At all places in the preceding clauses BHEL Management’s decision shall be final.

#### 4.0 GENERAL INSTRUCTIONS

##### PART-I (EMD & or tender fees (or exemption certificate), PQR, Technical clarification & SRF in envelope - I) shall comprise of following documents:

- a. Annexure-2 for Pre-qualification requirement. Point wise reply to all the points mentioned in Pre-Qualifying Requirement specified in the tender. Relevant documents as requested in Pre-Qualifying Requirement must be attached.
- b. **Vendor Registration Form (SRF)**  
(Kindly follow the link and follow instructions: <http://supplier.bhel.in/>)  
The SRF duly filled up will be assessed for manufacturing capability quality systems being followed, organizational soundness and financial worthiness. The same shall be submitted with Part-I by un-registered vendor only with BHEL, HEEP, Haridwar or the proof of submission through online portal. BHEL registered vendors (registered with permanent code M, N, S) need not to submit SRF.  
**For vendors registered with T code, SRF is to be submitted essentially along with the offer.**
- c. Non-disclosure agreement as per Annexure 6. The agreement shall be duly stamped & signed.
- d. Complete technical offer.
- e. Annexure-3 for compliance of technical/ commercial terms and conditions.
- f. Complete technical offer as per specification, drawings, technical requirement along with un-priced bid indicating FOB, C&F rate, separate Lloyd's/BV/TUV inspection charges (for Foreign vendors) and delivery schedule.
- g. Validity of offer to be indicated.
- h. Deviation with reference to specification/drawing, if any, should be clearly indicated on a separate sheet.
- i. Copy of price Bid (without prices).
- j. Any additional documents.

##### PART –II (Price Bid)

- a. Price bid with prices to be submitted as part-II of the tender.
- b. If price bid is not submitted along with Part-I bid, the offer will be rejected out rightly.
- c. In case of foreign vendors, prices to be quoted on C&F Mumbai basis separately. However, for air shipment the rates to be quoted on FCA or CPT destination port basis. In case of FCA, Loading port must be mentioned. In case of CPT, air freight charges to be indicated separately in price bid. Further non-availability of flight will not be accepted for rescheduling the delivery or waiver of penalties on account of delayed delivery.
- d. In case of Indigenous vendor, prices must be quoted on FOR-Destination-CPS-HEEP-BHEL basis. However, the insurance will be arranged by BHEL. Vendor can dispatch good through any Indian Bank Association approved transporters having their branch at Haridwar / destination. For the convenience name and address of transporters approved by IBA and BHEL are posted at website [www.bhelhwr.co.in](http://www.bhelhwr.co.in). Further, non-availability of BHEL approved transporter will not be accepted for rescheduling of delivery or waiver of penalties.
- e. In case of foreign vendors, third party (Lloyd's/BV/TUV) inspection charges to be quoted separately as third party inspection (Lloyd's/BV/TUV) is in vendor's scope. For Indian vendors, inspection shall be by TUV/ BHEL nominated inspection agency. Prices shall be loaded by 0.18% on account of TUV/ BHEL nominated inspection agency inspection charges. Third Party inspection shall be in BHEL scope.
- f. Prices should remain firm till the execution of the order. However, in case vendor prefers to maintain their own PVC formula, they can do so. Vendors must give upper & lower cap. However, lower cap has to be either equal or more in percentage point than the upper cap from base prices. This is **must** for evaluation purpose. **Upper price limit** will be considered for evaluation purpose.
- g. Insurance during transportation shall be taken care of by BHEL.
- h. Applicable sales Tax, Excise duty, service tax, educational cess and any other statutory levy should be indicated separately and clearly in the quotation.
- i. **Prices are to be written in both Figures & Words. In case of any difference between the two, If there is a discrepancy between words and figures, the amount in words shall prevail for evaluation and establishing L1 status.**
- j. **LD Penalty shall be applicable at the rate of ½% (half percent) per week or part thereof subject to a maximum of 10% of the value of delayed portion of the order. In case of any variation in LD penalty acceptance, your prices shall be loaded to the extent LD penalty not accepted by you. If**

- k. Payment term shall be **“100% against receipt and final acceptance (refer clause 4.1 of STT0076) at BHEL Haridwar”**. **BHEL as a rule do not agree to release advance payment.**
- l. Irrevocable LC is opened for one quarter (3 months) & is established 30 days prior to delivery schedule. The charges of establishing the LC are on either side i.e. charges in India to be borne by BHEL and charges outside of India to be borne by vendor. If any vendor insists for LC for more than one quarter, vendor has to essentially bear all charges (Within & Outside India) for the period exceeding one quarter.
- m. **BHEL does not open confirmed LC even if vendor agrees to bear the confirmation charges.**
- n. **The comparison between foreign and indigenous bids shall be done based on the Total Landed cost at Destination basis.**
- o. **EMD given by all unsuccessful Tenderers shall be refunded on acceptance of award / LOI/PO by successful Tenderer. The EMD of successful bidder shall be returned after submission of Contract Execution Bank Guarantee (CEBG).**

**Note:**

After tender opening (Part-I), if it is found that:

- The bidder has not submitted the requisite Tender Fee and EMD (If applicable)
- The bidder has claimed to be an MSE vendor but no supporting documents have been submitted in this regard.

In both the above cases the offer of the bidder may be **straightaway rejected** and no correspondence from the bidder in this regard shall be entertained.

However, offer of the bidder shall be treated as per the guideline in case the bidder has claimed to be an MSE vendor and submitted requisite MSE documents.

BHEL reserves the rights to place order for tendered quantity on more than one vendor

**As per directives of CENTRAL VIGILANCE COMMISSION, GOVERNMENT OF INDIA, One Agent can not represent two or more suppliers or quote on their behalf in a particular tender. If so found at any stage, BHEL-Hardwar is likely to cancel Enquiries/P.O.s to such suppliers. Further such Indian Agents are likely to be de-listed (Black listed for business from BHEL).**

**Superscription on envelopes:**

The following shall be super scribed on the envelopes:

**PART-I**

1. TENDER NO. AND ITEMS DESCRIPTION
2. DUE DATE FOR OPENING.
3. TENDER FEE, EMD (IF APPLICABLE) OR MSE CERTIFICATE TOWARDS EXEMPTION OF EMD & TENDER FEE
4. PRE- QUALIFYING REQUIREMENT (PQR)
5. SUPPLIER REGISTRATION FORM (SRF)
6. TECHNO-COMMERCIAL BID

**PART-II**

1. TENDER NO. AND ITEMS DESCRIPTION
2. DUE DATE FOR OPENING OF PART-I.
3. PRICE BID

The part-I & part-II shall be individually sealed and super scribed as indicated above and shall be enclosed further in the envelop duly sealed and super scribed as :

“TENDER FOR (ITEM NAME) AGAINST TENDER NO.----- DUE ON -----  
-----CONTAINING PART-I & PART-II OF THIS OFFER.” Vendor’s full name and address should be clearly mentioned on the envelope and shall be addressed to:

To,  
Head of Materials Management,  
Heavy Electrical Equipment Plant,  
BHEL,  
Hardwar- 249403

Envelopes not marked as above are liable to be ignored and will not be opened.

**IN CASE YOU ARE NOT MAKING AN OFFER AGAINST THIS ENQUIRY, THEN PLEASE ARRANGE TO SEND A LETTER OF REGRET IF YOU HAVE COLLECTED THE TENDER DOCUMENTS FROM BHEL.**

## **TERMS AND CONDITIONS OF REVERSE AUCTIONING**

Against this enquiry for the subject item /system with detailed scope of supply as per enquiry specifications, BHEL may resort to "REVERSE AUCTION PROCEDURE" i.e., ON LINE BIDDING ON INTERNET.

- For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.
- BHEL will engage the services of a service provider who will provide all necessary training and assistance before commencement of on-line bidding on internet.
- BHEL will inform the vendor in writing in case of reverse auction, the details of Service Provider to enable them to contact & get trained.
- Business rules like event date, time, start price, bid decrement, extensions etc. also will be communicated through service provider for compliance.
- Vendors have to fax the Compliance form in the prescribed format (provided by Service provider) before start of Reverse auction. Without this, the vendor will not be eligible to participate in the event.
- BHEL will provide the calculation sheet (e.g., EXCEL sheet) which will help to arrive at "Total Cost to BHEL" like Packing & forwarding charges, Taxes and Duties, Freight charges, Insurance, Service Tax for Services and loading factors (for non-compliance to BHEL standard Commercial terms & conditions) for each of the vendor to enable them to fill-in the price and keep it ready for keying in during the Auction.
- Reverse auction will be conducted on scheduled date & time.
- At the end of Reverse Auction event, the lowest bidder value will be known on the network.
- The lowest bidder has to Fax the duly signed Filled-in prescribed format as provided on case-to-case basis to BHEL through Service provider within 24 hours of Auction without fail.
- Any variation between the on-line bid value and the signed document will be considered as sabotaging the tender process and will invite disqualification of vendor to conduct business with BHEL as per prevailing procedure.
- In case BHEL decides not to go for Reverse Auction procedure for this tender enquiry, the Price bids and price impacts, if any, already submitted and available with BHEL shall be opened as per BHEL's standard practice.

**Annexure- 1**

<b>Sl. No.</b>	<b>Tender No.</b>	<b>Description of Item</b>	<b>Delivery required</b>	<b>Qty.</b>
1	T/6410/2015/3005D/2	<b>HW7799911832 BELT DRIVEN INTERNAL GRINDING SPINDLE SPECIFICATION:STT0076</b>	06/12/15	1 no.

- **Delivery dates are tentative, however, vendor should quote best delivery.**
- **EARLY DELIVERY IS ACCEPTABLE.**

Annexure- 2

**Special Instructions:**

1. GUARANTEE CERTIFICATE REQUIRED.
2. TEST CERTIFICATE REQUIRED.
3. OPERATION AND MAINTENANCE MANUAL REQUIRED.
4. SPECIFICATION ARE ENCLOSED.
5. IN CASE OF INDIGENOUS VENDORS (IN CASE OF PURCHASE ORDER, IF ANY): INVOICES AGAINST GOODS AND SERVICES HAVE TO BE SUBMITTED IMMEDIATELY AFTER SUPPLY OF GOODS AND SERVICES BUT NOT LATER THAN 30 DAYS FROM THE INVOICE DATE. IN CASE OF ANY DELAY, CONSEQUENTIAL LOSSES LIKE LOSS OF INPUT CREDIT AND NON-AVAILABILITY OF CONCESSIONAL FORMS ETC., SHALL BE TO THE VENDOR'S ACCOUNT.

**Annexure- 2**

<b><u>Pre-Qualifying Requirement (PQR) for Belt Driven Internal Grinding Spindle</u></b>		
Sl. No.	<u>Requirement</u>	Vendor's Response
1	<p>Only those vendors (Original Equipment Manufactures (OEMs) / authorized suppliers of OEMs) who have supplied at least one <b>Belt Driven Internal Grinding Spindle</b> with spindle dia 50 or more and spindle length 500 mm or more in the past ten years are only eligible to quote.</p> <p>Such spindle should be presently working satisfactorily for at least one year after its installation (counted backward from the date of opening of tender).</p> <p>The vendor should submit along with the offer, one performance certificate from a customer on customer's letter head bearing sign, name &amp; designation of issuer of certificate to whom such spindle is supplied and which is meeting the above criteria.</p>	
	The vendor should submit following information regarding company where referred spindle has been installed.	
1.1	Name & Address of the customer / company.	
1.2	Date of installation of spindle.	
2	Authorized Supplier should submit copy of authorization certificate from OEMs.	
3	BHEL reserves the right to verify the information provided by vendor. In case the information is found to be false /incorrect, the offer shall be rejected.	

SR. MGR. (TTX)

*[Signature]*  
7/8/15

AGM (TTX)


*[Signature]*  
7/8/15

*[Signature]*  
7/8/15  
SUMIT KUMAR  
(ENGR. / TTX)


**Annexure- 2**

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Please use generator SIGN & DATE		उत्पाद क्रय विनिर्देश <b>PRODUCT PURCHASE SPECIFICATION</b> (TURBINE TECHNOLOGY)	STT0076 मुख्य पृष्ठ PREFACE SHEET
SUPERSEDES INVENTORY NO. समझी सूची नम्बर संशोधन नम्बर	<p><b><u>BELT DRIVEN INTERNAL GRINDING SPINDLE</u></b></p> <p>केवल आंतरिक प्रयोग हेतु                  प्रदायक को देने से पूर्व इस मुख्य पृष्ठ को निकाल दें।  <b>FOR INTERNAL USE ONLY</b>  <b>REMOVE THIS PREFACE BEFORE ISSUE TO SUPPLIERS.</b></p>		
COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bharat Heavy Electrical Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company.	समतुल्य मानक / सूची आदि COMPARABLE STANDARDS / CATALOGUES ETC. }		
स्वत्वाधिकार एवं गोपनीय यह सूचना मे की गई सूचना, आरक्षक, निरूपित, प्रतिलिपि की प्रतिलिपि, प्रकाश, प्रसार, या अन्यथा प्रकाश, प्रसार, या अन्यथा, जो कि कंपनी के हित में परिकल्पित है, न किया जाय।	सुझाए / सम्भावित प्रदायक एवं श्रेणी SUGGESTED / PROBABLE SUPPLIERS AND GRADES. }		
Please use generator SIGN & DATE	कोई अन्य जानकारी ANY OTHER INFORMATIONS }		
समझी सूची नम्बर INVENTORY NO.	स्वीकृति APPROVED :		Gr. No. 9
REV.NO.- 00 Dt.- 30.07.15		निर्माण PREPARED : TTX	जारी ISSUED : TSX दिनांक DATE : 30.07.15

**Annexure- 2**

Date of issue SIGN. & DATE		उत्पाद क्रय विनिर्देश <b>PRODUCT PURCHASE SPECIFICATION</b> (TURBINE TECHNOLOGY)	STT0076
			Page 1 of 5

SUPERSEDES DIS BY	<p><b>BELT DRIVEN INTERNAL GRINDING SPINDLE</b></p> <p><b>1. Purpose :</b> The Grinding spindle is required for precision grinding of deep holes/bores of Defence components. This spindle shall be mounted on existing grinding machine model no. BDU250B of Czech makes (Photo of machine attached) for Carrey out grinding operation – Vendor to confirm</p> <p><b>2. Specification:</b>  <b>2.1. Grinding Spindle: 1 no.</b> Belt driven internal grinding spindle: Dia. 50 X550 mm integral with Dia. 100 (h5) X 250 mm required for mounting on existing grinding machine (Reference Sketch of spindle attached in Annexure - I) - Vendor to confirm</p> <p><b>2.2. Pulley: 1 no.</b>  <b>2.2.1</b> Pulley for driving belt should be attached with spindle by suitable arrangement (Refer Annexure - I) - Vendor to confirm  <b>2.2.2</b> Pulley dimension : D X L = 65 mm X 90 mm - Vendor to confirm</p> <p><b>3. Special features :</b>  <b>3.1</b> The spindle shaft should be supported on high -precision, high-speed, angular-contact ball bearing. Bearing should be RHP/FAG MAKE - Vendor to confirm  <b>3.2</b> The spindle casing is fitted with spring arrangement to eliminate the bearing clearance - Vendor to confirm  <b>3.3</b> The spindle is fitted with match paired bearing of P4 or better precision grade in front, middle &amp; back with correct order - Vendor to confirm  <b>3.4</b> The spindle should be Lubricated with long lasting grease packed. The grease filling should be last the entire bearing service life - Vendor to confirm  <b>3.5</b> There should be a suitable arrangement to clamp the straight cup grinding wheel in the spindle. Dimension of wheel: 60 X 40 X 20 (OD X W X ID) (40x20) mm AA60K5V8 (sketch attached in Annexure- II) - Vendor to confirm  <b>3.6</b> Maximum RPM: 10000 - Vendor to confirm  <b>3.7</b> Standard tool kit (Vendor to provide the list of tools) - Vendor to offer  <b>3.8</b> Vendor to supply the spindle in ready to use condition - Vendor to confirm</p> <p><b>4. Job Trial &amp; Acceptance :</b>  <b>4.1</b> Vendor to carryout grinding operation on the job at BHEL, Haridwar with maintaining accuracies as per attached BHEL drawing. No. 17820413171 (Bore dia - 75.1+0/+ 0.03 mm &amp; Length - 511 mm) on existing grinding machine. Surface finish of 0.2 micron (Ra) to be achieved along the length of bore as per drawing. This shall be basis for final acceptance - Vendor to confirm  <b>4.2</b> Job will be clamped in 4 jaw chuck with steady support on free end.  <b>4.3</b> Material of job is 1.5% Ni-Cr steel.  <b>4.4</b> During grinding operation through coolant is supplied from 4 jaw chuck side.</p> <p><b>5. Packing :</b> Spindle should be supplied in a strong wooden box - Vendor to confirm</p> <p><b>6. Guarantee:</b> Vendor shall be providing the guarantee for 12 months from date of its acceptance at BHEL works – Vendor to confirm</p>
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Inventory NO.						
	DEFENCE PROJECT	VIVEK PAL SINGH		TRANSLATED BY	SUMIT KUMAR	
	AGREED DEPTT.	NAME	DATE & SIGNATURE	WORKED BY	SWAPAN SARKAR	
				CHECKED BY		
				SUPERVISED BY		
				APPROVED :	M. K. TOLIA	Gr. NO. 9
	REV.NO.- 00		PREPARED :	TTX	ISSUED :	TSX
	Dt.- 30.07.15				DATE	30.07.15
	CHANGE ADVICE NO.					

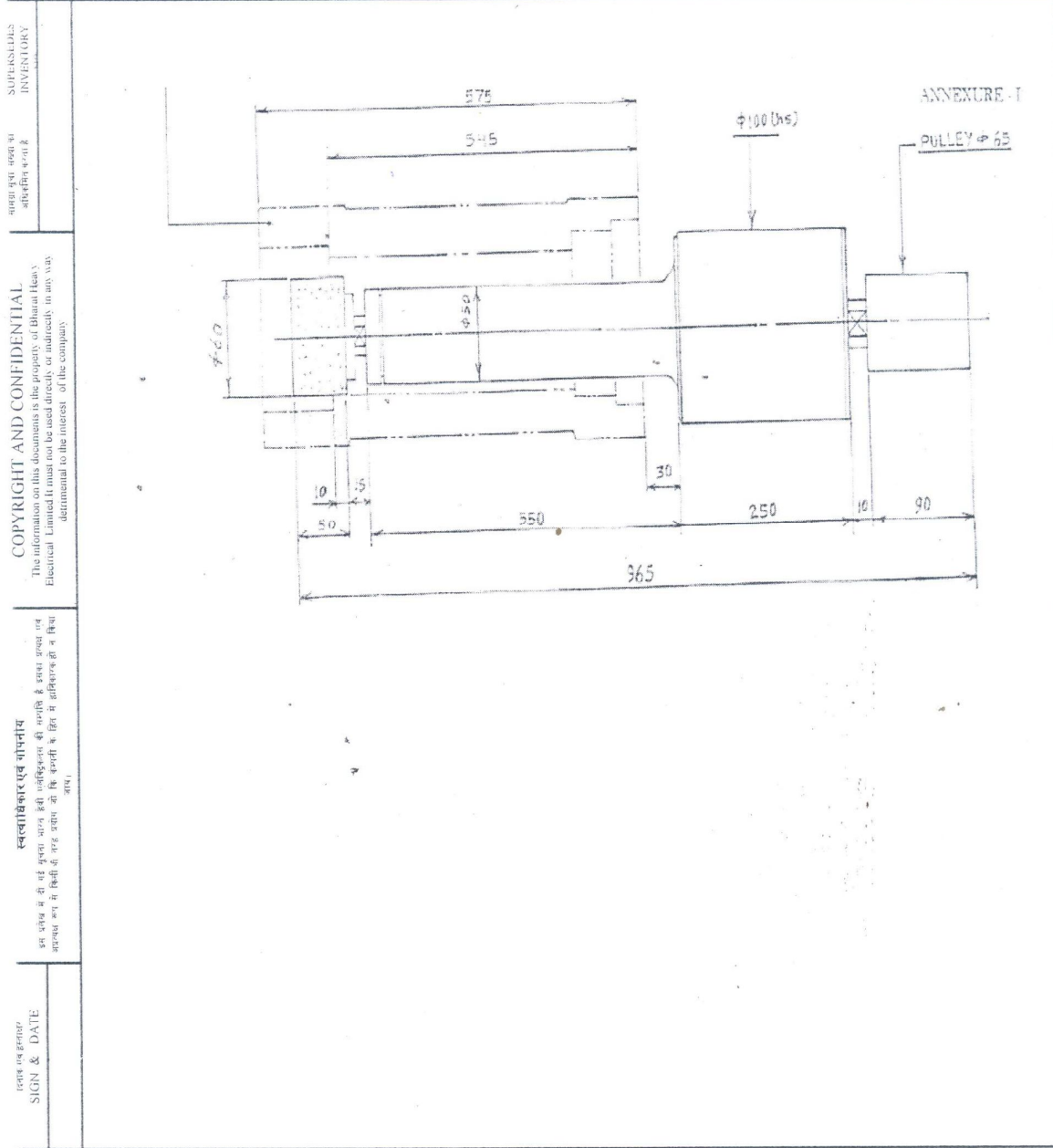




**Annexure- 2**

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DG-55

SIGN & DATE _____ _____		<h2 style="margin:0;">उत्पाद क्रय विनिर्देश</h2> <h3 style="margin:0;">PRODUCT PURCHASE SPECIFICATION (TURBINE TECHNOLOGY)</h3>	STT0076 <hr/> Page 3 of 5
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INVENTORY NO. _____	REV. NO.: 00		निर्माणकर्ता WORKED BY SUMIT KUMAR		30.07.15
			जांचकर्ता CHECKED BY SWAPAN SARKAR		30.07.15

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**स्वतंत्रतापूर्व घोषणा**  
 यह सूचना कि यह सूचना भारत भारी विद्युत कर्षण लिमिटेड की संपत्ति है और इसका उपयोग केवल भारत भारी विद्युत कर्षण लिमिटेड के हित में किया जा सकता है। अन्यथा इसका उपयोग करने से भारत भारी विद्युत कर्षण लिमिटेड के हित में नुकसान हो सकता है।



**ANNEXURE- 3**

**COMPLIANCE SHEET FOR TECHNICAL/COMMERCIAL TERMS AND CONDITIONS FOR THREE PART TENDER**

**PLEASE FILL THIS ANNEXURE & ATTACH WITH YOUR TECHNO-COMMERCIAL BID.**

You are requested to kindly confirm /clarify the following:-

<b>S.No.</b>	<b>Description</b>	<b>Your Confirmation</b>
1.	Vendor to confirm that they meet each & every clause of our Specifications/Drawings.	
2.	If “No” to serial number 1, vendor to specify each deviated clause & submit in a separate sheet.	
3.	Vendor to list out on a separate sheet any activity which is outsourced. Please furnish details of out sourced vendor.	
4.	Validity: confirm that validity of the offer shall be 90 days from the date of tender opening	
5.	Confirm that un-priced part of price bid is enclosed with technical commercial offer	
6.	Confirm that prices have been quoted on C&F Mumbai basis only (For Foreign vendors)	
7.	Confirm that Loading Port has been mentioned.	
8.	Confirm that prices have been quoted on FOR BHEL Haridwar basis. (For Indigenous vendor)	
9.	Confirm that prices shall be firm and fixed throughout delivery period.	
10.	<b>Confirm that payment term shall be “100% against receipt and final acceptance (refer clause 4.1 of STT0076) at BHEL Haridwar”.</b>	
11.	LD Penalty shall be applicable at the rate of ½ % (half percent) per week or part thereof subject to a maximum of 10% of the value of unexecuted portion of the order. In case of any variation in LD penalty, your prices shall be loaded to the extend LD penalty not accepted by you.	
12.	Confirm that all test certificates / Guarantee certificates to be submitted as per BHEL specification. in TRIPLICATE along with dispatch documents	
13.	Right of acceptance – BHEL reserves the right to reject any or all quotations without assigning any reasons thereof. BHEL also reserves the right to increase or decrease the tendered quantities. Vendors should be prepared to accept order for reduced quantities without any extra charges. Vendor should also be prepared for giving discount in case of increase in quantity.	
14.	Confirm specifically that material shall be supplied as per tender documents.	
15.	No grace period in delivery is acceptable. Please quote delivery accordingly.	
16.	Ink signed order acceptance shall be furnished within 15 days of order placement.	
17.	Confirm if there is Indian agency commission included in your price.	
18.	Inspection by third party (Lloyds/BV/TUV) inspection agency as per approved quality plan. Please quote material cost and third party (Lloyds/BV/TUV) inspection charges separately & third party inspection shall be in vendor scope (For Foreign vendors)	
19.	Inspection by BHEL nominated agency as per approved quality plan. Prices shall be loaded by 0.18% on account of third party inspection charges. Third party inspection shall be in BHEL scope (For indigenous vendors)	
20.	Please confirm your acceptance for Reverse Auctioning of these items.	