



**BHARAT HEAVY ELECTRICALS LTD.**  
 (A GOVT. OF INDIA UNDERTAKING)  
 P.O BHEL Jhansi - 284129, INDIA  
 Tel.:0510-277001/2412260 Fax: 2412120  
 Email : mmx@bheljhs.co.in

**PURCHASE ENQUIRY**

ENQ NO/DT: E4229002 16/05/22  
 REV NO/DT: 0 16/05/22

PAGE 1/4

JSC140/M2053

PLEASE SEND YOUR BEST QUOTATION AS PER TERMS & CONDITIONS AND REMARK MENTIONED UNDERNEATH.

Eng Due on:	30-05-22 MONDAY
Close at:	13:15 Open at:14:00
Matcat:	421020 RING CORE ON FINISH
Validity:	120 days from Technical bid opening date
IEM:	
TOP:	See Special Remarks
RA:	BHEL reserves the right to conduct RA
Est. Value:	Item wise
Bid Type:	TWO BID
Tot Item:	1
Delivery:	FOR Jhansi
E-Proc:	Yes

REQUIRED: TEST CERT

ITEM NO : 1  
 MATL CODE : TR172589A669  
 DESTINATION: JS

PSL QTY/UM: 2000.00 NO  
 PO QTY /UM: 60000.00 KG

DESCRIPTION	DELIVERY	QUANTITY (PSL UM)
SPIRAL WOUND CORE (RING CORE) AS PER SPEC-TR15091C	JUN-22	400.00
	OCT-22	400.00
	DEC-22	400.00
	FEB-23	400.00
	APR-23	400.00

**SPECIAL REMARKS:**

- TENDER ENQUIRY IS BEING PUBLISHED IN TWO PART BIDDING ON NIC PORTAL (<https://eprocurebhel.co.in/>).
- PART "A" (COVER NAME - \*\*\*\*Pack1) SHOULD CONTAIN YOUR TECHNO - COMMERCIAL OFFER ALONGWITH OTHER COMMERCIAL DOCUMENTS.
- PART "B" (COVER NAME - \*\*\*\*Pack2) SHOULD CONTAIN PRICE BID ONLY.
- PLEASE SEND THE TECHNO-COMMERCIAL BID (PART A) & PRICE BID (PART-B) AS PER FORMATS UPLOADED ON NIC PORTAL ONLY BEFORE DUE DATE AND TIME SPECIFIED IN ENQUIRY.
- ALL THE TERMS AND CONDITIONS OF THE CONTRACT WITH RESPECT TO TAXES AND DUTIES ARE SUBJECT TO THE NEW TAXATION LAWS INTRODUCED FROM TIME TO TIME ( E.G. GST). THE TERMS AND CONDITIONS WILL BE MODIFIED IN ACCORDANCE WITH THE PROVISIONS OF NEW LAWS E.G. GST.
- PREFERENCE TO PURCHASE UNDER 'MAKE IN INDIA' (MII) SHALL BE GIVEN AS PER CLAUSE 23 OF BHEL JHANSI GTC REV 03.
- RA WILL BE DONE TO DECIDE L-1 BIDDER.
- ALL SPIRAL CORE SHOULD MEET THE TECHNICAL REQUIREMENT AS PER SPEC-TR15091C.
- PACKING TO BE MADE IN PROPER WAYS PREVENTING THE CORE FROM JERK & DAMAGE DURING HANDLING & TRANSPORTING.
- DELIVERY MENTIONED ABOVE IS INDICATIVE ONLY AND ACTUAL REQUIREMENT WILL BE GIVEN WITH SEPARATE PO.
- DRGS WILL BE SENT THROUGH EMAIL
- DELIVERY MENTION ABOVE IS INDICATIVE ONLY AND IS ONLY FOR OUR SYSTEM REQUIREMENT (YOU MAY IGNORE THE SAME) HOWEVER EXACT DELY WILL BE GIVEN IN THE INDIVIDUAL P.O. WHICH WILL BE RELEASED DURING THE PERIOD THROUGH WHICH THE RATE CONTRACT IS VALID. PLEASE QUOTE YOUR BEST DELIVERY SCHEDULE & MONTHLY CAPACITY IN SL. NO. 1 AND 3 OF THE GENERAL PART OF TECHNO COMMERCIAL BID. (SCHEDULE IV OF THE TENDER DOCUMENT)
- FRAMEWORK AGREEMENT AGAINST THIS ENQUIRY SHALL BE VALID FOR ORDERING FOR ONE YEAR FROM DATE OF AWARD OF CONTRACT (LAST DAY OF 12TH MONTH) AND FOR SUPPLY 3 MONTHS THEREAFTER OR CONTRACTUAL DELIVERY WHICHEVER LATER. THE CONTRACT CAN BE FURTHER EXTENDED FOR ONE MORE YEAR ON MUTUALLY AGREED BASIS.



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11. RATES CALLED ARE FOR FINISH LAMINATION AND PVC IS APPLICABLE AS PER  
CLAUSE 9 OF SCHEDULE IV OF TENDER DOCUMENT.KINDLY QUOTE YOU PRICES  
KEEPING IN CONSIDERATION THE PVC CLAUSE.
- 12.QUANTITY MAY VARY BY +/-30% FOR EACH ITEM.
- 13-DUE TO LARGE QUANTITY & SMOOTH FLOW OF SUPPLY, FA MAY BE FINALISED  
WITH MORE THAN 1 SOURCE LIMITED TO 2 SUPPLIERS IN LINE WITH  
CLAUSE 8 OF SCHEDULE IV OF TENDER DOCUMENTS.

THE QUOTATION MUST BE SEALED AND BE SENT IN DOUBLE ENVELOPE.  
THE INNER ENVELOPE SHOULD BEAR ENQUIRY NUMBER & DUE DATE AT THE TOP.

In case the bidder has not submitted PAN No, TIN No. and E-mail ID, the bidder has to submit the same  
along with the copy of PAN No and TIN No. Else his offer will be liable to be rejected.

If you are not in a position to quote due to any reason, you must send regret letter titled enquiry  
no. etc, failing which you may not be considered for sending future enquiries.

\*\*\*\*\*

ENCLOSERS:





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FOR AND ON BEHALF OF  
BHARAT HEAVY ELECTRICALS LTD

*M. Singh* 16/5/22  
CHOUDHRY M S VERMA  
MANAGER (CMM)  
Email:-mulayam@bhel.in

\*\*\*\*\* END OF PURCHASE ENQUIRY\*\*\*\*\*

### NOTE :

- \* THE BIDDER IS INFORMED THAT THE GENERAL TERMS & CONDITIONS OF ENQUIRY (JHS 2055A Rev 03) WHICH ARE UPLOADED AT <https://www.bheljhs.co.in/apps/sip/index.php> AT (TERMS & CONDITION -> FOR ENQUIRY ) LINK, ARE TO BE READ BY THE BIDDER BEFORE SUBMITTING QUOTE IN THE ENQUIRY. BHEL SHALL CONSTRUCT THE PARTICIPATION BY THE BIDDER IN ENQUIRY AS ACCEPTANCE TO THE GENERAL TERMS AND CONDITIONS OF ENQUIRY.
- \* SUPPLIERS ARE REQUESTED TO INFORM US WITH VALID CERTIFICATE, IF THEY ARE REGISTERED UNDER MSMED ACT'2006. (APPLICABLE FOR INDIAN SUPPLIERS ONLY).
- \* FOR SUPPLIERS SUPPLYING FROM OUTSIDE THE LOCAL AREA OF BHEL JHANSI, ENTRY TAX WILL BE APPLICABLE. SUPPLIERS SHOULD NECESSARILY INDICATE RATE OF ENTRY TAX SEPARATELY WHEREVER APPLICABLE. THEY SHOULD ALSO MENTION THE ENTRY TAX CHARGED SEPARATELY IN THE INVOICE.
- \* FOR SUPPLIERS SUPPLYING FROM OUTSIDE UP, IN CASE THE OFFER IS SILENT ON ENTRY TAX, IT SHALL BE LOADED SUITABLY WITH THE APPLICABLE RATES
- \* IN CASE IF THERE IS ANY DIFFERENCE BETWEEN THE 'SPECIAL REMARKS/ANNEXURES' OF THE ENQUIRY AND THE PREPRINTED TERMS & CONDITIONS (REF JSC140/M2053), THE REQUIREMENT GIVEN IN REMARKS WILL PREVAIL.
- \* Reference Sl. No. 2(B) of General Terms and Conditions regarding option for offer submission through Email addressed to [tenderbox.jhs@bhel.in](mailto:tenderbox.jhs@bhel.in) , please note that the maximum mail size including attachments should not exceed 20 MB , otherwise the offer shall not be delivered due to size limitation and bidder sending mail attachments more than 20 MB will have no claim whatsoever on the subject tender . Also due to any technical snag , if offer has not reached [tenderbox.jhs@bhel.in](mailto:tenderbox.jhs@bhel.in) , it will be bidder's sole responsibility to ensure offer submission through alternate routes before the due date and time .BHEL will not entertain any such claim for non-receipt of offer on time .



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CMM (PURCHASE), JHANSI – 284120

Phone : 0510-2412734

Email: [mulayam@bhel.in](mailto:mulayam@bhel.in)

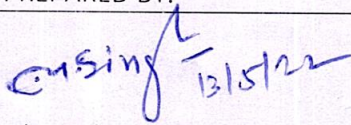
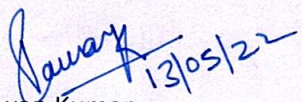
Ref: E4229002

Tender - E4229002

For One Year Framework Agreement of Spiral Wound Core as per Spec TR 15091C

## CONTENTS

SL NO	Particulars	Schedule	Page Nos
PART A			
1	Qualification Criteria	Schedule-I	02-03
2	Quantities covered in this tender Enquiry	Schedule-II	04
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PREPARED BY.	CHECKED BY
 Ch. Mulayam Manager(CMM)	 Pawan Kumar DGM (CMM)











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Pre-Qualifying Requirement for Procurement of 'CRGO RING CORE' – PI:421620108/

Sl. No.	REQUIREMENT	Bidder's Response																				
	<p>(2) Goods of worth Rs 15 Lakhs (b) for MSEs (1) Minimum 4200 KG (Or) (2) Goods of worth Rs 10.5 Lakhs</p> <p>Vendor to submit details of executed PO.</p> <table border="1" data-bbox="316 660 1212 952"> <thead> <tr> <th>Customer Name</th> <th>Order No. &amp; Date</th> <th>Qty. supplied in UM</th> <th>Tax Invoice No./ Completion Certificate &amp; Date</th> <th>Remark, if any</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	Customer Name	Order No. & Date	Qty. supplied in UM	Tax Invoice No./ Completion Certificate & Date	Remark, if any																
Customer Name	Order No. & Date	Qty. supplied in UM	Tax Invoice No./ Completion Certificate & Date	Remark, if any																		

- We agree that our bid is liable to be rejected in case (a) the relevant information is not filled, (b) documentation is incomplete, (c) there are false declarations, and (d) if we do not meet the PQR.
- Criteria at Sl. No. 5 is desirable. Other are mandatory.
- Supporting documents for the details filled above have been submitted.

*Handwritten signature*



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Ref: E4229002

Schedule- II**Quantities Covered:** Quantity Covered in this tender enquiry are as follows:

Sl. No.	Description	Total Qty.(Approx.)
(A)	SPIRAL WOUND CORE (RING CORE) AS PER SPEC-TR15091C	2000.000 NO 60,000 kg (60MT) +/- 30%

This requirement is tentative and may increase up to +30% depending upon BHEL's order book position and production requirement.

FA ordering shall be valid for One year from the date of entering into Rate Contract (last day of 12<sup>th</sup> months) and supply 03 months thereafter or contractual delivery whichever is later.

*Handwritten signature*





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### Schedule- III

#### INSTRUCTIONS FOR SUBMISSION OF TENDER

1. This Tender Enquiry is being published in two part bidding on BHEL NIC Portal (<https://eprocurebhel.co.in/>)
2. The offers against the enquiry shall be uploaded in two parts in corresponding covers as detail under.

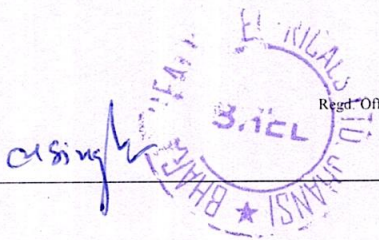
#### **Part – A Techno-commercial Bid (Cover Name – 2022\_BHEL\_\*\*\*\*\*pack1):**

- Should contain Duly filled & signed Enquiry Document Page 2 to 23 along with any other technical/commercial document except 'Price Bid'.

#### **Part – B Price Bid (Cover Name – 2022\_BHEL\_\*\*\*\*\*pack2):**

- Should contain only Price bid duly filled in prescribed format.

3. Bidder shall submit Part - A & Part - B of their offers on BHEL NIC Portal only. Offers received in any other mode/medium shall be treated as 'UNSOLICITED TENDER'.
4. The bids shall be submitted only in the format given in the tender documents. It may be noted that each page of the tender document has been signed by BHEL. While submitting the bid, copy of these very pages are to be used. The tenderer is also required to sign and stamp each and every page of the tender document clearly bring out deviations, if any.
5. Part - A of the bid alone shall be opened online on BHEL NIC Portal on defined due date. This part of the bid shall be examined in detail. Part - B of the bid shall be opened only for such of the tenderers whose Techno-Commercial offers are found acceptable by BHEL. Such tenderers shall be notified the date and time of opening of Part - B i.e. price part of their bids.
6. Tenders not complying with the above and other requirements of the tender shall be liable for rejection. Tenderers are therefore advised to read all the documents carefully before submission of the bids and ensure the fulfillments of all the technical and commercial parameters. Tenderers must carefully go through all the instructions and conditions before filling in Part - B of the bid. Any type of mistake in submission of the bids will make the tenderer liable for rejection.
7. It must be clearly understood that the orders released against this tender enquiry shall be governed by the General terms & conditions of the contract as preprinted overleaf of the enquiry. No deviation from these conditions is permitted.
8. Corrections in the bid should normally be avoided. However, when these become essential, bidder shall score out the incorrect information and put the correct information duly endorsing each correction with his signatures.
9. General terms and conditions of the REVERSE AUCTION shall be generally as per schedule VII. However, final terms & condition shall be intimated after techno-commercial evaluation of the tender.







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### Schedule- III

For clarification & support in submission of tender, the contact details are as follows:

<b>Name and Contact Details of the Person for Queries in the Tender</b>	Ch. Mulayam Manager/CMM, BHEL Jhansi Phone: - 0510-2412734 Email: - <a href="mailto:mulayam@bhel.in">mulayam@bhel.in</a> Mb-9999618906	Saurabh Kumar Addl. Engineering/CMM, BHEL Jhansi Phone: - 0510-2412716 Email: - <a href="mailto:saurabh.gupta@bhel.in">saurabh.gupta@bhel.in</a>
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We confirm above instructions have been fully understood. We further confirm that price bid has been submitted without addition of any other terms & conditions and if the price bid is found to be conditional (e.g. minimum order quantity, slab rate, discount for quantity, different terms of payment etc. etc.), BHEL has full right not to accept our offer.







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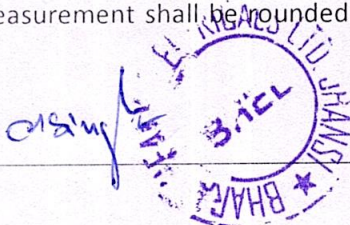
Email: [mulayam@bhel.in](mailto:mulayam@bhel.in)

### Schedule- IV

#### TECHNO-COMMERCIAL TERMS & CONDITIONS

1. The Technical requirements for the laminations shall be as detailed at Schedule –II.
2. In Price Bid format Part –B the rate should be quoted in Rs. per Kg on finish basis only.
3. Rates shall be quoted duly considering the ITC credit available on the input material and the corresponding benefit on this account shall be passed on to BHEL. Taxes & Duties shall be extra as applicable on the date of actual delivery.
4. The rates quoted shall be on FOR BHEL Jhansi basis on Rs. per Kg on finish basis. **Packing, Forwarding, Freight & Insurance** from Bidder's works to BHEL Jhansi works shall be in the scope of the bidder.
5. Packing: Packing to be made in proper ways preventing the core from jerk & damage during handling & transporting.
6. **Payment Terms** :-100 % payment within 90 days ( 45 days for MSE / NSIC registered suppliers as per relevant act in force ) from the date of receipt of material and submission of clear and admissible bill, subject to acceptance of material at BHEL , on direct presentation of the documents. In case of despatch of material to site directly, site certification for receipt of materials is required unless otherwise provided for in the PO. Any deviation from the above payment terms, if accepted (by BHEL), shall be loaded @ SBI base rate (as on date of Part I bid opening) + 6%, for the purpose of bid evaluation. All documents as called for in the PO have to be submitted by the Supplier at the time of receipt of material and this should include the Invoice of the Supplier - Original copy of the Buyer and Duplicate for Transporter. On receipt of Invoice, the same shall be acknowledged by BHEL. Any clarifications on the bill submitted by the supplier shall be sought generally within 30 days (15 days for MSE / NSIC registered suppliers as per relevant act in force) of receipt of bill at BHEL. While it would be in the interest of the Supplier to provide the reply immediately to the clarifications sought, the Supplier is to respond at least within 7 days from the date of clarifications sought by BHEL. Wherever clarifications are sought by BHEL, the date of receipt of clarifications from the supplier shall be considered as date of submission of clear and admissible bill.
7. The validity of the quotation shall be for a period of minimum 120 days from the opening date of tender.
8. **Manner of Splitting of rate Contract Quantity:** Due to large quantity requirement, we may finalize tendered quantities among more than one bidder (after acceptance of L1 price by the other bidders), but limited to capacity quoted by the bidder. Indicate your committed capacity for the items/ works/ services tendered and confirm that capacity offered by you against our tender shall be available for us during the entire period of Purchase Order/Contract.

Where the number of qualified responses (N) are three or more, the distribution shall be limited to (N-1) response. The manner and proportion of distribution shall be mentioned in the specific enquiry. While the manner of distribution is mentioned in the enquiry, the absolute values of the unit of measurement shall be rounded off. For eg: If an allocation of 40% quantity results 23.5 units, the







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quantity allocated shall be 24 units. If an allocation of 40% quantity results in 23.3 units, the quantity allocated shall be 23 units.

The distribution shall be based on the acceptance given by the bidders to the L1 price counter offered to them. In case any or all of the bidders do not accept the counter offer, and a situation arises wherein bidder(s) who have agreed to the counter offer may have to be allotted more quantity than what has been proposed earlier, then the same shall be done, but limited to the capacity quoted by the bidder(s)“

Whenever, the number of techno commercially qualified responses (N) is two, BHEL reserves the right on whether or not to distribute the quantity on more than one bidder.

In this tender the quantities distribution shall be done between TWO (02) bidders as below stated ratio (%).

P (No of vendors)	L1	L2	Total
1	100	NA	100
2	70	30	100

Note: While the above patterns shall also be followed in long terms framework agreements (FA), performance of suppliers shall be monitored periodically, and loading in FA will also be subject to factors like (a) Customer approval of suppliers in specific projects, (b) quality surveillance at Supplier works, (c) Suppliers delivery and quality performance during execution of FA, (d) Pendency of orders on the supplier and (e) responsiveness in addressing post order completion issue at BHEL.

In view of above factors, the loading during execution of FA may vary with respect to allocated quantity. During execution of FA, if the performance of supplier is not upto the mark in respect of delivery/ quality performance/ quoted capacity of the bidder, BHEL reserve the right to either reduce further loading or stop loading till the execution of overdue orders. In such cases, action shall be taken against defaulting supplier(s) as per guidelines of the Company, and the balance allocated full or part quantity of defaulting supplier(s) may be redistributed amongst other performing and willing vendors of FA.

### 9. PVC Clause :

Price variation is allowed on domestic supply offer for exchange rate only as per formula below :

$$P1 = P0 \times \{0.15 + 0.85 \times (ES/ET)\}$$

Where in

P1 is rate payable per kg.

P0 is quoted rate per kg.

ET and ES are Custom notified exchange rate in Rs. / US \$ prevalent on part-I technical bid opening date and one month prior to date of supply (LR date) respectively.

If delivery is made beyond the contractual delivery date, the ES will be Custom notified exchange rate in Rs. / US \$ prevalent one month prior to contractual delivery date or actual delivery date whichever is lower.

For example, if finished and stacked laminations are supplied on 15<sup>th</sup> March 2022 & PO delivery is 15<sup>th</sup> Feb 2022, custom notified exchange rate in Rs. / US \$ on 15<sup>th</sup> Feb 2022 or 15<sup>th</sup> Jan 2022, whichever is lower shall be taken for PVC Claim.





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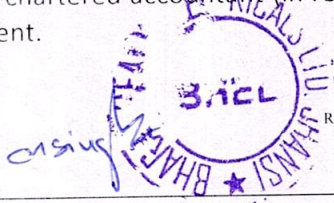
Phone : 0510-2412734

Email: [mulayam@bhel.in](mailto:mulayam@bhel.in)

10. **Validity:** Framework agreement shall be valid for ordering for 01 Year (last day of 12<sup>th</sup> month) from date of award of contract and for supply 3 months or contractual delivery whichever is later.
11. **Inspection:** BY BHEL AT JHANSI.
12. **Tests Certificate:** Test Certificate required as per spec TR15091C.
13. **Penalty Clause:** If the material is not supplied within the stipulated time schedule, BHEL shall be within their right be free to cancel the contract and purchase the material through any other source at the risk and cost of the Bidder. In such an event it shall be obligatory on the defaulting Bidder to make good the loss suffered by BHEL. The above option shall be executed at the discretion of BHEL.
14. **LD Clause:** Failure to supply by the time specified on the purchase order will make the Bidder liable to pay unconditional penalty of ½% of the prices of goods in arrear per week subject to a maximum of 10% of the delayed order value unless mutually agreed otherwise.
15. **Guarantee Clause:** All goods shall be free from any defects due to faulty material and workmanship and it will be guaranteed for a period of 24 months from the date of dispatch & 18 months from the date of acceptance of material at BHEL Jhansi works, whichever is later.
16. The bidder is informed that the General Terms & Conditions of Enquiry which are uploaded at [https://jhs.bhel.com/apps/sip/enq\\_terms/enq\\_tems\\_current.pdf](https://jhs.bhel.com/apps/sip/enq_terms/enq_tems_current.pdf) are to be read by the bidder before submitting quote in the Enquiry. BHEL shall construe the participation by the bidder in the enquiry as acceptance to the General Terms & Conditions of Enquiry.
17. In all cases of disputes, the matter shall be referred for arbitration. The arbitrator shall be nominated by the Unit Head, Bharat Heavy Electricals Ltd. Jhansi or any other officer nominated by him. The award of Arbitrator shall be final and binding on both the parties.
18. In case of any suit or other legal proceedings under or relating to this tender, the Courts at Jhansi shall have full jurisdiction.
19. **Compliance to MAKE IN INDIA circular issued by Gol:** "For this procurement, Public Procurement (Preference to Make in India), Order 2017 dated 15.06.2017, 28.05.2018, 29.5.2019 & 04.06.2020 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 "

To avail purchase preference under Make In India guidelines, vendor should be categorized as Class 1/Class 2 supplier. For a vendor to be classified as "Class 1 local supplier"/" Class 2 local supplier", bidder from which support letter has been furnished shall have to submit annexure – MII with seal and sign duly ratified / verified by statutory auditor or cost auditor of the company (in case of companies) or from a practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.





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Schedule-V**TECHNO COMMERCIAL BID (PART-A)**

(Supplier should fill up this bid by putting the tick in accepted / not- accepted column)

**SUPPLIER'S NAME & ADDRESS:-**

.....

Ref No: .....

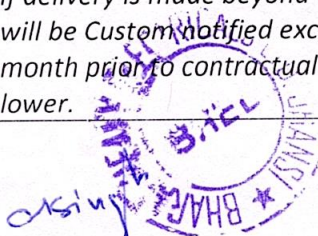
Date:.....

**General**

Sl.No.	Terms & Conditions	Remarks
1 (A)	Supply rate capacity for this tender	..... MT per month
1 (b)	Quoted Quantity for tender (+/- 30 variation is applicable based on BHEL's requirement)	.....MT (100% qty)
2	GST as applicable	..... %
3	Commencement of Delivery Period from date of purchase order / LOI. (BHEL's desired delivery 2 months from PO/LOI date)	..... in months

**COMMERCIAL PART.**

Sl. No.	Terms & Conditions	Remarks
1	The supply of Spiral Wound Core as per Enquiry. All spiral core should meet the technical requirement as per spec-TR15091C	Accepted / Not accepted
2	Rate is to be quoted on Rs. per Kg basis and fully finish basis.	Accepted / Not accepted
3	Rates quoted in the price bid are FOR BHEL Jhansi basis. L1 bidder will be decided on FOR JHANSI BASIS.	Accepted / Not accepted
4	<p><b>PVC</b> : Price variation is allowed on domestic supply offer for exchange rate only as per formula below :</p> <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 10px 0;"> <math display="block">P1 = P0 \times \{0.15 + 0.85 \times (ES/ET)\}</math> </div> <p>Where in P1 is rate payable per kg. P0 is quoted rate per kg. ET and ES are Custom notified exchange rate in Rs. / US \$ prevalent on part-I technical bid opening date and one month prior to date of supply (LR date) respectively. If delivery is made beyond the contractual delivery date, the ES will be Custom notified exchange rate in Rs. / US \$ prevalent one month prior to contractual delivery or actual delivery whichever is lower.</p>	Accepted / Not accepted





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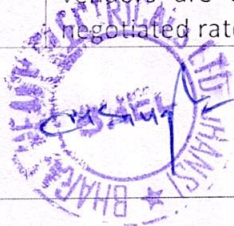
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Phone : 0510-2412734

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Ref: E4229002

5	Taxes and duties shall be extra as applicable on the date of actual delivery.	Accepted / Not accepted
6	Validity of the rate quoted is 120 days from the date of opening of the tender.	Accepted / Not accepted
7	<b>Penalty Clause :-</b> If the material is not supplied within the stipulated time schedule as per the quoted delivery period as at Sl. No. 3 of General terms & condition, BHEL shall within their right be free to cancel the contract and purchase the material through any other source at the risk and cost of the supplier. In such an event it shall be obligatory on the defaulting supplier to make good the loss suffered by BHEL. The above option shall be executed at the discretion of BHEL.	Accepted / Not accepted
8	<b>LD Clause:-</b> Failure to supply by the time specified as per the quoted delivery period will make the supplier liable to pay unconditional penalty of ½% of the prices of goods in arrear per week or part thereof subject to a maximum of 10% of the delayed order value unless mutually agreed otherwise. Refer Sl. no. 8 of General terms & condition (GTC Rev 03)	Accepted / Not accepted
9	<b>Payment Terms:-</b> 100 % payment within 90 days (45 days for MSE / NSIC registered suppliers as per relevant act in force) from the date of receipt of material and submission of clear and admissible bill, subject to acceptance of material at BHEL, on direct presentation of the documents and other terms & condition given in this tender are acceptable to us as per clause 6 of schedule –IV.	Accepted / Not Accepted
10	<b>Guarantee Clause :-</b> All goods shall be free from any defects due to faulty material and workmanship and it will be guaranteed for a period of 24 months from the date of dispatch & 18 months from the date of acceptance of material at BHEL Jhansi works, whichever is later.	Accepted / Not Accepted
11	<b>Manner of Splitting of rate Contract Quantity:</b> The rate contract may be finalized with more than one vendor. However, allocation of rate contract quantity will be in decreasing order (max quantity to the lowest bidder L1, then to L2 considering their capacity & delivery / production requirement of BHEL. The rate contract will be established between <b>Two (02)</b> suppliers.  The distribution of FA quantity shall be as at Clause 8 of Schedule IV.	Accepted / Not Accepted
12	The L1 rate will be counter offered in sequence to L2, L3, & L4,.....(low to high).....for acceptance till a total of required vendors are available for finalization of rate contract at L1 negotiated rate.	Accepted / Not Accepted





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13	BHEL specific or customer specific quality plan shall also be followed (if any).	Accepted / Not Accepted
14	L-1 bidder will be decided after Reverse Auction.	Accepted / Not Accepted
15.	Please confirm your participation in Reverse Auction.	Yes : Confirmed
16.	Reverse Auction shall be done to decide L-1 bidder, Please confirm that you will participate in reverse auction. (Non acceptance to this clause may liable to rejection your offer).	Yes : Confirmed
17	The bidder is informed that the General Terms & Conditions of Enquiry which are uploaded at <a href="https://jhs.bhel.com/apps/sip/enq_terms/enq_tems_current.pdf">https://jhs.bhel.com/apps/sip/enq_terms/enq_tems_current.pdf</a> are to be read by the bidder before submitting quote in the Enquiry. BHEL shall construe the participation by the bidder in the enquiry as acceptance to the General Terms & Conditions of Enquiry	Accepted / Not Accepted
18	Framework agreement against this enquiry shall be valid for ordering for one year from date of award of contract (last days of 12 <sup>th</sup> month) and supply 3 months thereafter or contractual delivery whichever is later. The contract can be further extended for one more year on mutually agreed basis.	Accepted / Not Accepted
19	All other terms & conditions of the printed document R/C enquiry are also acceptable to the vendors.	Accepted / Not Accepted
20.	Acceptance to MAKE IN INDIA clause no. 14 of schedule III	Accepted / Not Accepted
21.	Weight Variation/Supply Tolerance :Weight variation of +/- 3% is acceptable.	

**Note: If any of the above conditions are not accepted the offer shall be liable for rejection.**

1. Person to be contacted :

2. Telephone No : .....

3. E mail Id : .....

Signature of Bidder :

Name :

Designation :

Seal :







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### Schedule- VI

### PRICE BID (PART - B)

(For reference only. To be filled format available online @ <https://eprocurebhel.co.in/>)

To,  
DGM (MM)  
BHEL JHANSI-284120 UP

Subject: - Price Bid against your annual Rate Contract Enquiry no. E4229002 Spiral Wound Core (Ring Core) as per Enquiry specification.

Total landed cost exclusive Input tax credit for enquiry item as given below:

Sl.No.	Description	Enquiry #01	
(A)-	BASIC RATE		
(B)-	GST		
(C)-	Input Tax Credit (same as B)		
(H)-	TOTAL LANDED COST (A + B – C) per Kg. This value to be quoted during reverse auction	In figure	
		In words	

#### NOTE :

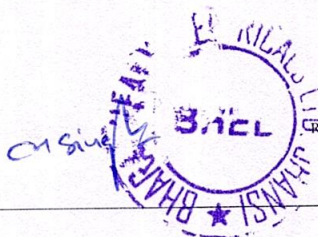
1. Please quote the price taking in consideration the PVC clause mentioned at clause 9 of schedule IV
2. The price bid submitted in any other fashion or by adding any condition (e.g. minimum order quantity, rates applicable for specified quantity, discount for quantity, rate based on slabs, rate based on terms of payment etc.), offer shall be liable to be REJECTED even if, offer has been found technically & commercial acceptable before opening of price bid.

Signature of Bidder's :

Name :

Designation :

Seal :







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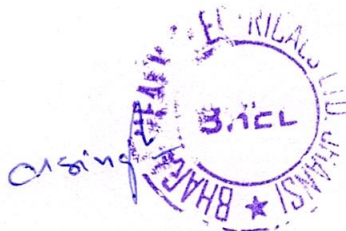
Email: [mulayam@bhel.in](mailto:mulayam@bhel.in)

Schedule- VII

**Business Rule of Reverse Auction for the procurement of Spiral Wound Core (Ring Core) on Finish basis as per the agreed Technical Specification against the Tender No. E4229002 DTD**

**XXXXXXXXXX**

Buyer Name	Name of BHEL Unit: BHEL Jhansi - Full postal address: PO BHEL Jhansi (UP)284120 - Fax: 0510-2412120 - Phone:0510-2412459 - Contact person name: Pawan Kumar, DGM/CMM - Phone: 0510-2412449 - Email: <a href="mailto:pawanbhel@bhel.in">pawanbhel@bhel.in</a>  and - Contact person name: Choudhry Mulayam, MGR/CMM - Phone: 0510-2412734 - Email: <a href="mailto:mulayam@bhel.in">mulayam@bhel.in</a>
Auction to be conducted by	Name of Service Provider: XXXXXXXX
Date of Auction	Date of Auction: .....
Documents Attached: (To be sent to the bidders)	1) Business rules for Reverse Auction (Annexure-I) 2) Process Compliance Form (Annexure-II) 3) Details of item(s) to be Reverse Auctioned (Annexure-III) 4) Post RA Price confirmation by bidder (Annexure-IV)
SPECIAL INSTRUCTIONS	1) Bidders to submit online sealed bid less than or equal to their envelope sealed bid already submitted to BHEL. 2) Bidding in the last minutes and seconds should be avoided in the bidders own interest. Neither the Reverse Auction Service Provider nor BHEL will be responsible for any lapses / failure on the part of the vendor, in such cases.







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### Schedule - VII

#### Annexure – I

### Business Rules for Reverse Auction

This has reference to tender no **E4229002** dated **XXXXXX**. BHEL may finalize the Rates for the supply of Spiral Wound Core (Ring Core) through Reverse Auction mode. BHEL has made arrangement with M/s. {Service provider}, who shall be BHEL's authorized M/s. {Service provider}, for the same. Bidders should go through the instructions given below and submit acceptance of the same.

The technical & commercial terms are as per (a) BHEL Tender Enq. No. E4229002 dated XXXX, (b) Bidders' technical & commercial bid (in case of two-part bid) and (c) subsequent correspondences between BHEL and the bidders, if any.

#### 1. Procedure of Reverse Auctioning

- i) Price bids of all techno-commercially qualified bidders shall be opened.
- ii) **Online Reverse Auction:** The 'bid decrement' will be decided by BHEL.
- iii) If BHEL decides the lowest sealed envelope price bid as the starting price, then the lowest bidder in sealed envelope price bid shall be shown as current L1 automatically by the system and no acceptance of that price is required. System shall have the provision to indicate this bid as current L1.
- iv) Bidders by offering a minimum bid decrement or the multiples thereof can displace a standing lowest bid and become "L1" and this continues as an iterative process. However, no bidder shall be allowed to lower its bid below the current L1 by more than 5 decrements at one go.
- v) After the completion of the online reverse auction, the Closing Price (CP) shall be available for further processing.
- vi) Wherever the evaluation is done on total cost basis, after Reverse Auction, prices of individual line items shall be reduced on pro-rata basis.

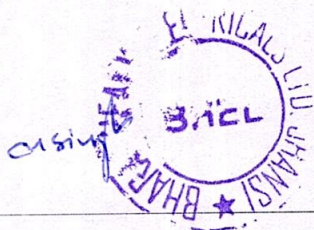
#### 2. Schedule for Reverse Auction: The Reverse Auction is tentatively scheduled on -----(shall be intimated later) and the duration of online sealed bid will be **30** minutes. All bidders to submit their online sealed bids during this period.

##### - Online Sealed Bid: -

- Start Time: 14.00 Hrs.
- Close Time: 14.30 Hrs.

##### - Online Reverse Auction: -

- Start Time: 15.00 Hrs.
- Close Time: 16.00 Hrs.







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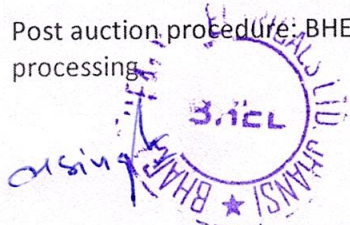
### Schedule - VII

**3. Auction extension time:** If a bidder places a bid in the last {...} minutes of closing of the Reverse Auction and if that bid gets accepted, then the auction's duration shall get extended automatically for another {...} minutes, for the entire auction (i.e. for all the items in the auction), from the time that bid comes in. Please note that the auto-extension will take place only if a bid comes in those last {...} minutes and if that bid gets accepted as the lowest bid. If the bid does not get accepted as the lowest bid, the auto extension will not take place even if that bid might have come in the last {...} minutes. In case, there is no bid in the last {...} minutes of closing of Reverse Auction, the auction shall get closed automatically without any extension.

However, bidders are advised not to wait till the last minute or last few seconds to enter their bid during the auto-extension period to avoid complications related with internet connectivity, network problems, system crash down, power failure, etc.

The above process will continue till completion of Reverse Auction. Complaints/ Grievances, if any, regarding denial of service or any related issue should be given in writing thru e-mail/ fax to M/s. {Service provider} with a copy to BHEL within 15 minutes prior to initial closing time of Online Reverse Auction.

- 4. Bid price:** The Bidder has to quote the FOR Jhansi Landed Price (Net of ITC) inclusive of Packing & Forwarding charges, all the routine & type tests as per tender scope, Freight (bidder to provide original Freight paid receipt), insurance charges, etc. including loading (if indicated by BHEL due to deviations in technical/ commercial terms) for the Items specified. Details are as shown in Excel Sheet for calculation of total cost to BHEL (To be specified by Unit as per NIT conditions).
- 5. Bidding currency and unit of measurement:** Bidding will be conducted in *Indian Rupees per Unit* of the material as per the specifications mentioned in E3529002  
In case of foreign currency bids, exchange rate (TT selling rate of State Bank of India) as on scheduled date of tender opening (Part-I bid) shall be considered for conversion in Indian Rupees. If the relevant day happens to be a Bank holiday, then the forex rate as on the previous bank (SBI) working-day shall be taken.
- 6. Validity of bids:** Price shall be valid for **120 days** from the date of reverse auction. These shall not be subjected to any change whatsoever.
- 7. Lowest bid of a bidder:** In case the bidder submits more than one bid, the lowest bid at the end of Online Reverse Auction will be considered as the bidder's final offer to execute the work.
- 8. Unique user IDs shall be used by bidders during bidding process.** All bids made from the Login ID given to the bidders will be deemed to have been made by the bidder's/ bidders' company.
- 9. Post auction procedure:** BHEL will proceed with the Lowest Bid in the Reverse Auction for further processing.







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### Schedule - VII

10. Any commercial/ technical loading shall be intimated to bidders prior to RA. The excel sheet provided in this regard shall cover all these aspects. Commercial/ technical loading if any, shall be added by the respective bidder in its price during online sealed bid & Online Reverse Auction. Modalities of loading & de-loading shall be separately intimated to the bidders. The responsibility for correctness of total cost to BHEL shall lie with the bidders.
11. Computerized reverse auction shall be conducted by BHEL (through M/s. {Service provider}), on pre-specified date, while the bidders shall be quoting from their own offices/ place of their choice. Internet connectivity shall have to be ensured by bidders themselves.

During the RA process if a bidder is not able to bid and requests for extension of time by FAX/ email/ phone then time extension of additional **15 minutes** will be given by M/s. {Service provider} provided such requests come before **5 minutes** of auction closing time. However, only one such request per bidder can be entertained.

Despite this extension if bidder fails to upload his prices due to extreme case of failure of Internet connectivity, (due to any reason whatsoever may be) it is the bidders' responsibility/ decision to send fax communication immediately to M/s. {Service provider}, furnishing the price the bidder wants to bid online with a request to the Service Provider to upload the faxed price online so that the Service Provider will up load that price online on behalf of the Bidder. It shall be noted clearly that the concerned bidder communicating this price M/s. {Service provider} has to solely ensure that the fax message is received by the Service Provider in a readable/ legible form and also the Bidder should simultaneously check up with Service Provider about the clear receipt of the price faxed. It shall also be clearly understood that the bidder shall be at liberty to send such fax communications of prices to be uploaded by the Service Provider only within the closure of Bid time and under no circumstance it shall be allowed beyond the closure of Bid time /reverse auction. It shall also be noted that the Service Provider should be given a reasonable required time by the bidders, to upload such prices online and if such required time is not available at the disposal of the Service Provider at the time of receipt of the fax message from the bidders, Service Provider will not be uploading the prices and either BHEL or the Service Provider are not responsible for this unforeseen circumstances. In order to ward-off such contingent situation bidders are requested to make all the necessary arrangements/ alternatives whatever required so that they are able to circumvent such situation and still be able to participate in the reverse auction successfully. Failure of power or loss of connectivity at the premises of bidders during the Reverse auction cannot be the cause for not participating in the reverse auction. On account of this, the time for the auction cannot be extended and neither BHEL nor M/s. {Service provider} is responsible for such eventualities.







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### Schedule - VII

12. **Proxy bids:** Proxy bidding feature is a pro-bidder feature to safeguard the bidder's interest of any internet failure or to avoid last minute rush. The proxy feature allows bidders to place an automated bid in the system directly in an auction and bid without having to enter a new amount each time a competing bidder submits a new offer. The bid amount that a bidder enters is the minimum that the bidder is willing to offer. Here the software bids on behalf of the bidder. This obviates the need for the bidder participating in the bidding process until the proxy bid amount is decrementally reached by other bidders. When proxy bid amount is reached, the bidder (who has submitted the proxy bid) has an option to start participating in the bidding process.

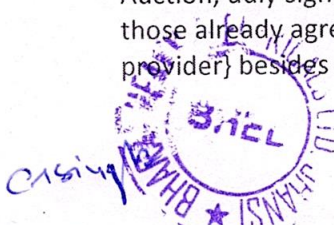
The proxy amount is the minimum amount that the bidder is willing to offer. During the course of bidding, the bidder cannot delete or change the amount of a proxy bid.

Bids are submitted in decrements (decreasing bid amounts). The application automates proxy bidding by processing proxy bids automatically, according to the decrement that the auction originator originally established when creating the auction, submitting offers to the next bid decrement each time a competing bidder bids, regardless of the fact whether the competing bids are submitted as proxy or standard bids. However, it may please be noted that if a manual bid and proxy bid are submitted at the same instant manual bid will be recognized as the L1 at that instant.

In case of more than one proxy bid, the system shall bid till it crosses the threshold value of 'each lowest proxy bid' and thereafter allow the competition to decide the final L1 price.

Proxy bids are fed into the system directly by the respective bidders. As such this information is privy only to the respective bidder(s).

13. Bidders are advised to get fully trained and clear all their doubts such as refreshing of screen, quantity being auctioned, tender value being auctioned etc from M/s. {Service provider}.
14. M/s. {Service provider}, shall arrange to demonstrate/ train the bidder or bidder's nominated person(s), without any cost to bidders. M/s. {Service provider}, shall also explain the bidders, all the business rules related to the Reverse Auction. Bidders are required to submit their acceptance to the terms/ conditions /modalities before participating in the Reverse Auction in the process compliance form as enclosed. Without this, the bidder will not be eligible to participate in the event.
15. Successful bidder shall be required to submit the final prices (L1) in prescribed format (Annexure-VI) for price breakup including that of line items, if required, quoted during the Online Reverse Auction, duly signed and stamped as token of acceptance without any new condition (other than those already agreed to before start of auction), after the completion of auction to M/s. {Service provider} besides BHEL within two working days of Auction without fail.







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### Schedule - VII

16. Any variation between the final bid value and that in the confirmatory signed price breakup document will be considered as tampering the tender process and will invite action by BHEL as per extant guidelines for suspension of business dealings (as available on [www.bhel.com](http://www.bhel.com)).
17. Bidders' bid will be taken as an offer to execute the work/ supplies of the item as per enquiry no. E4229002 dt..... Bids once made by the bidder, cannot be cancelled/ withdrawn and bidder shall be bound to execute the work as mentioned above at bidder's final bid price. Should bidder back out and not execute the contract as per the rates quoted, BHEL shall take action as per extant guidelines for suspension of business dealings (as available on [www.bhel.com](http://www.bhel.com)).
18. Bidders shall be able to view the following on their screen along with the necessary fields during Online Reverse Auction:
  - a. Leading (Running Lowest) Bid in the Auction (only total price of package).
  - b. Bid Placed by the bidder.
  - c. Start Price.
  - d. Decrement value.
  - e. Rank of their own bid during bidding as well as at the close of auction.
19. BHEL's decision on award of contract shall be final and binding on all the Bidders.
20. BHEL reserves the right to extend, reschedule or cancel the Reverse Auction process at any time, before ordering, without assigning any reason, with intimation to bidders.
21. BHEL shall not have any liability to bidders for any interruption or delay in access to the site irrespective of the cause. In such cases, the decision of BHEL shall be binding on the bidders.
22. Other terms and conditions shall be as per bidder's techno-commercial offers and other correspondences, if any, till date.
23. If there is any clash between this business document and the FAQ available, if any, in the website of M/s. {Service provider}, the terms & conditions given in this business document will supersede the information contained in the FAQs. Any changes made by BHEL/ M/s. {Service provider} (due to unforeseen contingencies) after the first posting shall be deemed to have been accepted if the bidder continues to access the portal after that time.
24. Bidder shall not divulge either his Bids or any other exclusive details of BHEL to any other party. If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, action as per extant BHEL guidelines for suspension of business dealings (as available on [www.bhel.com](http://www.bhel.com)), shall be initiated by BHEL.

*M Singh*







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### Schedule - VII

Annexure – II

#### Process Compliance Form

(The bidders are required to print this on their company's letterhead and sign, stamp before RA)

To

- M/s. {Service Provider}

#### Sub: Agreement to the Process related Terms and Conditions

Dear Sir,

This has reference to the Terms & Conditions for the Reverse Auction mentioned in the RFQ document for { Spiral Wound Core (Ring Core) } against BHEL enquiry/ RFQ no. E4229002 dtd. XXXXXXX

This letter is to confirm that:

- 1) The undersigned is authorized official/ representative of the company to participate in RA and to sign the related documents.
- 2) We have studied the Reverse Auction guidelines (as available on [www.bhel.com](http://www.bhel.com)), and the Business rules governing the Reverse Auction as mentioned in your letter and confirm our agreement to them.
- 3) We also confirm that we have taken the training on the auction tool and have understood the functionality of the same thoroughly.
- 4) We also confirm that, in case we become L1 bidder, we will FAX/ email/ the price confirmation & break up of our quoted price (including that of line items) as per Annexure-VI within two working days (of BHEL) after completion of RA event, besides sending the same by registered post/ courier both to M/s. BHEL and M/s. {Service provider} .
- 5) We also confirm that in case we become L1 bidder, the envelope sealed price bid submitted by us shall be opened by BHEL and we agree to accept the lower of the two bids (RA closing price & envelope sealed price) for placement of order and we have understood that in case online sealed bid placed by us is found higher than envelope sealed price bid submitted by us, then BHEL may take action as stipulated in NIT.

We, hereby confirm that we will honour the Bids placed by us during the auction process.

With regards

Signature with company seal.....

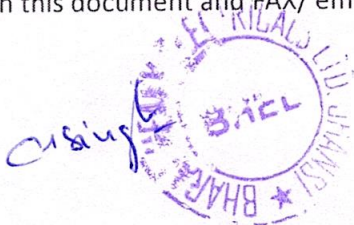
Name –.....

Company / Organization.....

Designation within Company / Organization.....

Address of Company / Organization.....

- Sign this document and FAX/ email it to M/s. {Service provider} prior to start of the Event.







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## Schedule - VII

Annexure – III

### Details of item (s) for Reverse Auction

Sl. No.	Description	Total Qty.(Approx.)
(A)	SPIRAL WOUND CORE (RING CORE) AS PER SPEC-TR15091C	2000.000 NO  60,000 kg (60MT) +/- 30%

The offers of all the bidders are technically & commercially frozen as submitted by the bidders and clarified in subsequent correspondence, if any, with the bidders.







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Schedule - VII

Annexure – IV

**RA price confirmation and breakup**

(To be submitted by L1 bidder after completion of RA)

To

- M/s. {Service Provider}

Sub: Final price quoted during Reverse Auction and price breakup

Dear Sir,

We confirm that we have quoted:

₹ \_\_\_\_\_/Kg\_ in value & in words ₹ \_\_\_\_\_ per Kgs for item(s)

covered under tender enquiry No. E4229002 dt. XXXXXX

Total price of the items covered under above cited enquiries is inclusive of {freight and insurance charges up to BHEL Jhansi, Jhansi District, UP State, (excluding GST), other as per NIT} as our final landed prices as quoted during the Reverse Auction conducted today {.....} which will be valid for a period of 120 day ( in words One Hundred Twenty days).

The price break-up including that of line items is as given below.

=====

Total - Rs..... in value & in words.....

=====

Thanking you and looking forward to the valuable order from BHEL.

Yours sincerely,

For \_\_\_\_\_

Name:.....

Company:.....

Date:.....

CC : Dy. General Manager (CMM)  
BHEL, Jhansi





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**ANNEXURE-MII****BHARAT HEAVY ELECTRICALS LIMITED, JHANSI  
CENTRAL MATERIAL MANAGEMENT – TMM DIVISION**

*For this Procurement, Government of India Public Procurement (Preference to Make in India), Order 2017 with its amendments and subsequent Orders issued by the respective nodal ministries shall be applicable even if issued after issue of this NIT but before finalization of contract/PO/WO against this NIT.*

*As per the Provisions of this order, please submit a self-certification complying with the conditions below on company letterhead duly signed by competent authority.*

I ....., hereby declare on behalf of M/s. .... that we are participating in the Enquiry No. .... floated by BHEL, JHANSI (UP), India and shall comply with following:

1. Public Procurement (Preference to Make in India), Order 2017 with its amendments and subsequent Orders issued by the respective nodal ministries shall be applicable even if issued after issue of this NIT but before finalization of contract/PO/WO against this NIT.

2. As per the Provisions of this order, only “Class-I Local Suppliers”/ “Class-II Local Suppliers” are eligible to bid for the tender.

(a) A supplier will be treated as “Class-I Local Suppliers”, if the items quoted by bidder have local content equal to or more than 50%.

(b) A supplier will be treated as “Class-II Local Suppliers”, if the items quoted by bidder have local content more than 20% but less than 50%.

(c) ‘Local Content’ means the amount of value added in India, which shall be total value of item quoted (excluding net domestic indirect taxes) minus the value of imported content in the item (including all custom duties) as a proportion of the total value, in percent.

3. I hereby declare that our firm qualifies as “Class-I Local Suppliers” or “Class-II Local Suppliers”.

a. The Local Content in the items quoted under this Enquiry is ..... Percent

b. Details of location(s) in India where this value addition shall be done, is/are as follows:

(a) .....

(b) .....

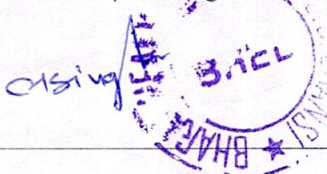
(c) .....

(.....)

For M/s. ....

(Seal & Sign)

Note: As per GOI order No:P-45021/2/2017-PP (BE-II) dtd 04.06.20, in case of procurement is more than ₹ 10 Crores, the class-I local supplier/class-II local supplier shall be required to provide a certificate from a practicing cost accountant or practicing chartered accountant giving the percentage of local content.







Form no.2038

उत्पाद मानक

परिणामित्र

शाप / अभि. निर्देश

PRODUCT STANDARD  
TRANSFORMER

DO INSTRUCTION

TR 15091C

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PAGE 1 OF 2

शीर्षक :  
TITLE :

SPIRAL WOUND CORES

This annexure covers the quality of single unit spiral ring cores manufactured from CRGO Grade ZH-100 / M0H / better of thin strips (0.27 mm. Max.)

DIMENSIONS & TOLERANCES :

The dimensions of toroidal ring cores for inside diameter, outside diameter, and length (axial length) to be as per indent / purchase order.

Max. & Min. Dimensions of core shall be as under :-

Min. I/D :- 130 mm, Max. O/D :- 650 mm & Max. Height :- 50 mm

The tolerances on these dimensions are to be as follow :-

Inside diameter	+ 00 mm
	- 1.0 mm
Outside diameter	+ 1.0 mm
	- 0.0 mm
Axial Height	+ 0.5 mm
	- 0.0 mm

MAGNETIC CHARACTERISTICS :

No cores manufactured from a strip upto 50 mm width shall have the r.m.s. value of the total magnetizing current as a function of the peak value of the flux density and measured for sinusoidal flux of 50 Hz, exceed the values as given below :-

At 0.5 Tesla	0.085	Amper turn/CM
1.0 Tesla	0.160	-do-
1.5 Tesla	0.300	-do-
1.65 Tesla	0.370	-do-

(To calculate cross-section area take stacking factor = 0.93)

FREEDOM FROM DEFECTS :

No tapping shall be applied, projection edges and sharp corners should be avoided and particular attention to be paid to securing the ends of strip to prevent un-reelling.

VARNISHING :

Both the top and bottom sides of the cores shall be varnished with clear hard air drying varnish to give rigidity to the cores. The varnish shall be fully cured and should be compatible with transformer oil to IS: 335 / IEC 60296.

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शीर्षक :  
TITLE :

SPIRAL WOUND CORES

ANNEALING :

After winding the cores (before varnishing) all the cores are to annealed at a temperature of  $800 \pm 20^\circ\text{C}$  in an inert gas-Nitrogen atmosphere. The  $800 \pm 20^\circ\text{C}$  is to be maintained for minimum 2 hours and slowly cooled to achieve the desired magnetic characteristics of cores.

TEST CERTIFICATE :

Three copies of test certificate shall be supplied with each consignment. The test certificate shall bear the following information.

Ring cores of CRGO, SIZE .....  
 PO No .....  
 Suppliers name .....  
 Magnetic properties at 0.5, 1.0, 1.5 & 1.65 Tesla.  
 Consignment no .....

PACKING & MARKING :

Each core shall be marked with two vertical yellow colored varnish strips with a suitable label indicating core size, P. O. No. serial no of core and core material-CRGO cores to be packed suitably to prevent damage during transit.

REJECTION :

BHEL reserves the right to reject any material not complying to the above requirements. Damage / Black spots / Rusting are not acceptable and material shall be rejected.

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