



BHARAT HEAVY ELECTRICALS LIMITED
HEEP HARIDWAR INDIA-PIN 249403
FAX NO: 0091 1334 226462/223948
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DATE OF ENQUIRY- 04.05.2016

Tender No.: F/T237/2016/0386H

Due Date: 04.06.2016

Sub: BHEL-HEEP/OPEN-TENDER

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:-

Tender No	Item Description	Qty (Nos)
F/T237/2016/0386K	W96716601503 High Fin (Wrapped On) Tube Drg: 21660170058 Var 01 rev 01 Spec: HE57065 Rev 01	2736

The tender documents & Specification of item can be downloaded from our web site www.bhel.com or www.bhelhwr.co.in or www.tenders.gov.in submitted with requisite EMD.

Only those vendors who fulfill the Minimum Qualifying Requirements (as per Annexure-II) will be considered for further technical evaluation.

This notification shall be published in national newspaper. **The last date for downloading tender documents shall be 03.06.2016 & opening of tender shall be 04.06.2016.** Tenders will be received up to 01.45 P.M. on **04.06.2016** and opened on the same day at 2.00 P.M. in the Tender Room. **Please note that tender received after due date & time (01.45 PM on 04.06.2016) will not be opened.** BHEL will not be responsible for any type of postal / courier delay.

Intending vendors must submit the requisite EMD Rs. 1,50,000/- (Rupees One Lacs Fifty Thousand Only) for indigenous vendors (or equivalent amount in foreign currency for foreign vendors) in the form of pay order or bank draft while submitting the tender documents as detailed in "Instruction to Bidders", after downloading from this web site.

EMD is waived off for-

- Central/ State – PSUs/ Government departments
- As per government guidelines, MSE suppliers are exempted for submission of EMD (Valid Documentary proof against MSE must be submitted along with offer to avail the benefits).
The vendors registered for item High Fin (Wrapped On) Tubes as per HE57065 Rev 01 with BHEL, Haridwar are only exempted from EMD.

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

The details of each item with required delivery are given in **Annexure-III (Details of Items)**

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

IN ADDITION TO VENDORS MENTIONED ABOVE, OFFERS SHALL ALSO BE CONSIDERED ONLY THOSE VENDORS WHO WILL SUBMIT EMD. [PLEASE SUBMIT DRAFTS FOR EMD DRAWN IN FAVOUR OF BHARAT HEAVY ELECTRICALS LTD. HEEP, HARIDWAR IN ANOTHER ENVELOPE SUPERSCRIBED WITH BOLD LETTERS "EMD" 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 attending the bid opening.

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

DEFINITION

Registered Vendors - Are those who are registered with BHEL, Haridwar for procurement of High Fin (Wrapped On) Tubes.

Un-registered Vendors - Are those who are not registered with BHEL, Haridwar for procurement of High Fin (Wrapped On) Tubes.

MINIMUM QUALIFICATION REQUIREMENT

Following is the mandatory requirement. Offer of Vendors not meeting these requirements will not be considered.

➤ **Technical Requirements-**

1. Vendor shall have the following minimum experience:

Successfully manufactured and supplied minimum 5000 m total length of root soldered high fin tubes in last 5 years similar to drawing no. 2166070058 (Annexure-VI) for minimum 8 fins per inch and minimum 3m length of single tube. Vendor to furnish the purchase order and dispatch documents for the same.

OR

Successfully manufactured and supplied minimum 5000m total length of root soldered crimped fin tubes and minimum 5000m total length either of L/G/LL-fin with or without root soldered for minimum 3m length of single tube and minimum 8 fins per inch in last 5 years. Vendor to furnish the purchase order and dispatch/inspection documents for the same.

2. Vendor shall have minimum in-house manufacturing and testing facilities as below:
- a. Finning machine for high fin tube with root soldering or proven technology for root soldering. Machine should have capability of finning minimum 7m length.
 - b. Hydraulic testing facilities for testing of finned tubes at pressure 20Kg/sq.cm(a). Vendor to furnish the supporting documents for above mentioned facilities.

➤ **Quality Requirements-**

1. Inspection by LRS/TUV/BV in case of foreign vendors and by BHEL nominated agency SGS in case of indigenous vendors as per BHEL approved QP.
2. All vendors to submit QP as per enclosed BHEL format for BHEL approval.

Note- Technical as well as quality requirements is applicable for both registered as well as un-registered vendors.

Note:-

1. Indian Vendors to procure the base tubes from BHEL approved vendors namely M/s Multimetals Ltd., Kota, M/s Metal Alloys Corporation, Jamnagar, M/s Industrial Tubes Manufacturers Pvt. Ltd., Mumbai and M/s Mehta Tubes Ltd., Mumbai.
2. Foreign vendor shall furnish the complete credential of sub-vendors along with technical offer part-1 for BHEL review.

Vendors must fill up Annexure– II in confirmation to above Minimum Qualifying Requirements and quality requirement.

ESSENTIAL INSTRUCTIONS

1. Only those bids will be opened which have been submitted with requisite EMD.
2. 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.
3. BHEL team may visit the vendor (s) works for verification of capability and capacity claimed in tender documents/offer (s).
4. The tender document must comprise of four envelopes:
 - i) Envelope I : EMD or NSIC Certificate for exemption of EMD.
 - ii) Envelope II : Pre- Qualifying Requirement & Supplier Registration Form.
 - iii) Envelope III : Techno -Commercial Bid.
 - iv) Envelope IV : Price Bid.

It is essential that all the four envelopes comprising of the above information should be submitted on the due date otherwise the authenticity of tender date & time will be defeated. In view of the above, it is proposed that offer should comprise of the above four envelopes at the time of tender opening.
5. The tenders shall be submitted in three parts
 - i. Part I - Techno -Commercial Bid,
 - ii. Part II - Price Bid
 - iii. Part III - Vendor Registration Form

as described below on or before the due date. Vendor Registration Form shall be submitted by unregistered vendors only.
6. **The Quotation should be from the Principal / Original Manufacturer, failing which the quotation is likely to be ignored. In Case the quotation is submitted through agent, the quotation must accompany original authorization letter.**
7. Documents submitted with the offer/bid by the bidder shall be signed and stamped in each page by authorized representative of the bidder. In case the bid is submitted by FAX, the bidder shall simultaneously ensure submission of signed and stamped (in each page) original bid to BHEL. If the documents are received in soft form, the same should be transmitted through vendor's authorized e-mail followed by the signed and stamped copy of the same documents. Documents not signed and stamped in each page by the authorized signatory of the bidder, shall not be accepted and considered for evaluation of the bid.
8. Any corrections / amendments shall be properly & fully authenticated with signature. No overwriting is acceptable.
9. In case of ordering, manufacturing plan should be submitted for BHEL approval.
10. Part-I containing techno-Commercial bid and part-III containing Vendor Registration Form will be opened on the date and time specified in the tender notice in the presence of those tenders who wish to attend.
11. Part-II (Price Bids) along with supplementary price bids, if necessary, will be opened at a later date of only those bidders whose techno-commercial bid has been found acceptable.
12. Suitability of delivery shall be the important criteria for evaluation of techno commercial bid and the bids falling within the delivery period and meeting the last delivery requirement.
13. Currency exchange rate will be applicable on the date of opening of Part-I (Techno-commercial Bid) for evaluation purpose.
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.**
 - c. **Evaluation of comparative statement will be done on item wise basis after combining DEEC & PI quantity and order will be placed accordingly.**
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- VII. The bids of those vendors who do not agree for reverse auction may not be considered for RA. The Terms & Condition for Reverse Auctioning are as per Annexure VII.**
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.**

Note: Please visit our site www.bhelhwr.co.in for General Instructions and Standard Terms & Conditions (GISTC) for Tender Enquiries for Indian & Foreign Vendor. All the bidders/vendors must ensure compliance of these GISTC. GISTC can also be referred by login to B2B Portal for BHEL approved Vendors.

IN CASE YOU ARE NOT MAKING AN OFFER AGAINST THIS ENQUIRY, THEN PLEASE ARRANGE TO SEND A LETTER OF REGRET.

DETAILS OF COMPOSITION OF PART-I (TECHNO-COMMERCIAL BID), PART-II (PRICE BID) & PART-III (VENDOR REGISTRATION FORM)

PART-I (TECHNO-COMMERCIAL BID) shall comprise of following documents:

- a. Confirmation to Minimum Qualification Requirement and Quality Requirement as per Annexure-II.
- b. Complete technical offer as per specification, drawings, technical requirement along with un-priced bid.
- c. Delivery schedule.
- d. Inspection charges by LRS/TUV/BV separately for foreign vendors.
- e. Validity of offer to be indicated.
- f. **Annexure- I** - Compliance sheet for technical/commercial terms and conditions for two part tender.
- g. **Deviation with reference to specification/drawing, if any, should be clearly indicated on a separate sheet.**
- h. Details of activity outsourced.
- i. Drawing no- 21660170058 Var 01 Rev 01 as per Annexure- VI.
- j. Quality Plan Format as per Annexure- V.
- k. Signed & Stamped Price Variation Formula as per Annexure XI.

PART –II (Price Bid)

- a. Price bid with prices to be submitted as part-II of the tender.
- b. Prices should remain firm till the execution of the order.
- c. **In case of foreign vendors, Please quote your rates with C&F Landing Port.**
- d. **In case of Indigenous vendor, prices may be quoted on FOR- Destination- Store-HEEP-BHEL basis.**
- e. LRS/TUV/BV inspection charges to be quoted separately in case of foreign vendors.
- f. **Prices are to be written in both Figures & Words. In case of any difference between the two, the figure written in words shall be considered for evaluation. No over writing in this is acceptable.**

Part-III - Vendor Registration Form (SRF)
(SRF-Foreign Suppliers or SRF-Indian Suppliers)

- a. **Supplier/Vendor Registration Form-** Go through online supplier registration portal <https://supplier.bhel.in/> after filling the online registration form send the copy of same along with your offer within due date.
- b. The SRF (as applicable) 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 (Techno-Commercial Bid) by un-registered vendor only with BHEL, HEEP, Haridwar.

MARKING OF ENVELOPE:

- Each envelop is to be super scribed as “TENDER FOR “**High Fin (Wrapped On Tubes)**” AGAINST TENDER NO. **F/T237/2016/0386H** DUE ON **04.06.2016**.
- Drafts for EMD to be kept in one envelop – Envelop –A. On the Top of the envelope, please write Draft No., Issuing Bank Details & Amount. Those vendors who are quoting for more than one tender must submit a statement in the envelops of all those tenders giving details of all the tenders being quoted. However, the draft of each tender should be kept in individual tender envelop.
- Techno-Commercial - Part-I to be kept in another envelop – Envelop-B & to be marked as Techno-Commercial Offer.
- Vendor Registration Form - Part –III to be kept in another envelop – Envelop – C & to be marked as Vendor Registration Form.
- Price Bid – Part-II to be kept in another envelop – Envelop-D & to be marked as Price Bid.
- Envelop-A, Envelop-B, Envelop-C & Envelop-D are to be kept in one envelop super scribed as above

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

ANNEXURE-I

COMPLIANCE SHEET FOR TECHNICAL/COMMERCIAL TERMS AND CONDITIONS FOR TWO PART TENDER

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

Offer must be sent in two separate sealed envelopes containing techno-commercial offer in one envelope marked "TECHNO-COMMERCIAL BID" and prices in second envelope marked "PRICE-BID". Both the envelopes must be contained in the main envelope. Tender name and due date to be marked on all the envelopes.

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

S. No.	Description	Vendor's Confirmation
1	Vendor to confirm that they meet each & every clause of our specifications/Drawings.	YES / NO
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	YES / NO
5	Confirm that un-priced part of price bid is enclosed with technical commercial offer	YES / NO
6	Confirm delivery quoted as per enquiry	YES / NO
7	For foreign Vendors- Confirm that you have quoted your rates with C&F Landing Port with third party inspection charges separately. For Indigenous Vendors- Confirm that you have quoted your rates on FOR Destination basis.	YES / NO
8	Confirm that Loading Port has been mentioned.	YES / NO
9	Confirm that prices are based on "Price Variation Formula" as per Annexure-XI.	YES / NO
10	For foreign Vendors- Confirm that payment term shall be "On collection basis through SBI/PNB Ranipur, Hardwar" (CAD). For Indigenous Vendors- Confirm that payment term shall be "100% payment after receipt and acceptance of material.	YES / NO
11	LD Penalty shall be applicable on total order value @0.5% per week or part thereof subject to maximum of 10% of the PO Value.	YES / NO
12	Confirm that all test certificates to be submitted as per BHEL specification. in TRIPLICATE along with despatch documents	YES / NO
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.	YES / NO
14	Confirm specifically that material shall be supplied as per tender documents.	YES / NO
15	Ink signed order acceptance shall be furnished within 15 days of order placement.	YES / NO
16	Confirm if there is Indian agency commission.	YES / NO
17	Please confirm to participate in Reverse Auction.	YES / NO
18	Confirm acceptance of Risk Purchase clause.	YES / NO
19	Confirm to send original ink signed copy of offer, if offer has been sent through email or FAX or photocopy has been submitted.	YES / NO

ANNEXURE-II

Minimum Qualification Requirement

Following is the mandatory requirement. Offer of Vendors not meeting these requirements will not be considered.

➤ **Technical Requirements-**

Sl. No.	Technical Requirement	Vendor's confirmation (Y/N)
01	<p>Vendor shall have the following minimum experience:</p> <p>Successfully manufactured and supplied minimum 5000 m total length of root soldered high fin tubes in last 5 years similar to drawing no. 2166070058 (Annexure-VI) for minimum 8 fins per inch and minimum 3m length of single tube. Vendor to furnish the purchase order and dispatch documents for the same.</p> <p style="text-align: center;">OR</p> <p>Successfully manufactured and supplied minimum 5000m total length of root soldered crimped fin tubes and minimum 5000m total length either of L/G/LL-fin with or without root soldered for minimum 3m length of single tube and minimum 8 fins per inch in last 5 years. Vendor to furnish the purchase order and dispatch/inspection documents for the same.</p>	
02	<p>Vendor shall have minimum in-house manufacturing and testing facilities as below:</p> <p>a. Finning machine for high fin tube with root soldering or proven technology for root soldering. Machine should have capability of finning minimum 7m length.</p> <p>b. Hydraulic testing facilities for testing of finned tubes at pressure 20Kg/sq.cm(a).</p> <p>Vendor to furnish the supporting documents for above mentioned facilities.</p>	
<i>Note- This is applicable for both registered as well as un-registered vendors.</i>		

➤ **Quality Requirements-**

Sl. No.	Quality Requirement	Vendor's confirmation (Y/N)
01	<p>a. Inspection by LRS/TUV/BV in case of foreign vendors and by BHEL nominated agency SGS in case of indigenous vendors as per BHEL approved QP.</p> <p>b. All vendors to submit QP as per enclosed BHEL format for BHEL approval.</p>	
<i>Note- This is applicable for both registered as well as un-registered vendors.</i>		

Signature with stamp

Name:

Name of Firm:

Designation:

Date:

ANNEXURE-III

(Item Details and Delivery Schedule)

Tender No.	Material Code	Description	Specification	Qty.	Delivery
F/T237/2016/0386H	W96716601503	High Fin (Wrapped On) Tubes Drawing 21660170058 Var 01 Rev 01	HE57065 Rev 01	1 st Lot- 1368 Nos. 2 nd Lot- 1368 Nos.	30.08.2016 30.09.2016

NOTE: THE QUANTITY INDICATED ABOVE CAN BE INCREASED/ DECREASED.

ANNEXURE-IV
(Specification HE57065 Rev: 01)



उत्पाद मानक

HE57065

PRODUCT STANDARD

पृष्ठ का Page 1 of 3

HIGH FIN (WRAPPED ON FIN) TUBE

1.0 Scope :

This standard covers the requirement of High Fin (Wrapped On Fin) Tube, wrapped externally over the tubes with root soldered.

2.0 Application :

These tubes are mainly used in Gas/ Air Coolers.

3.0 Compliance to Standards: The standard is based on BHEL own experience.

4.0 Technical Requirement :

4.1 Condition of delivery :

High Fin (Wrapped on Fin) Tube shall be supplied with the required configuration of high fin fully soldered over the base tube as per drawing. Each tube shall be hydraulically tested. Tube ends shall be square cut and free from solder material/ chemicals etc. so that the ends must be suitable for roller expansion joints. The Finned Tubes shall be packed suitably as per BHEL's approved Packing procedure.

4.2 Manufacturing Process :

High Fin (Wrapped on Fin) Tube shall be manufactured exactly as per geometrical details (number of turns, pitch, fin height, fin size etc) as specified in the drawing supplied. Root of the fin to be soldered with base tube. The bonding of fins to the base tube should be perfect without any air gap for effective heat transfer. The bonding shall also be mechanically strong and robust to make the tube suitable for their use in gas/air coolers of TG sets. If necessary, the base tube can be tinned for proper bonding/ soldering.

4.3 Material :

- 1. Tube :- 90:10 Cu Ni as per ASTM B111 C70600 from BHEL approved vendors.
2. Fin :- 99.9% Cu as per ASTM C11000
3. Solder Wire :- 1S:1921 Gr 35 or Equivalent

5.0 Dimensions & Tolerances:

Refer drawing.

6.0 Documents to be Submitted :

Following documents shall be submitted along with the offer for BHEL approval.

- 1. Quality plan.

दिनांक एवं हस्ताक्षर SIGN & DATE


सामग्री सूची संख्या को INVENTORY

स्वत्वाधिकार एवं गोपनीयता The information on this document 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.

हस्ताक्षर एवं दिनांक SIGN & DATE

सामग्री सूची संख्या INVENTORY NO.

Table with columns for Name, Signature & Date, and various roles like TRANSLATED BY, WORKED BY, CHECKED BY, SUPERVISED BY, APPROVED, and PREPARED.

दिनांक एवं हस्ताक्षर SIGN & DATE		उत्पाद मानक (हीप - हार्डवार) PRODUCT STANDARD (HEEP - HARDWAR)	HE57065 पृष्ठ का Page 2 of 3			
सामग्री सूची संख्या को SUPERSEDES INVENTORY	2. Process chart clearly indicating the process & sequence of manufacturing. 3. Detailed packing procedure.					
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.	7.0 Inspection & Testing : i) BHEL's representative shall have a free access at all times to all parts of manufacturer's works, until work on contract of BHEL is being performed. The supplier shall offer to BHEL's representative, all reasonable facilities without charge to satisfy the later that the material is being produced in accordance with this specification. ii) If specified in the purchase order, the test certificate shall be approved by BHEL's representative/ BHEL approved third party inspection agency. iii) Vendor shall advise purchaser at least 4 weeks in advance when items are ready for inspection. iv) A type test for testing the bonding strength, between fins and tube, shall be done by the vendor in presence of BHEL representative as per Annexure-I. No breakage of joint/elongation/gap is acceptable. Type test report is valid for a period of one year incase process parameter (machine number, speed, feed temperature etc), material and dimensions are not changed. v) 100% tubes shall be subjected to hydraulic test at 20 kg/cm ² for 10 seconds after finning as per ASME, Sec VIII, Div1, UG-99. No leakage is acceptable.					
स्वत्वधिकार एवं गोपनीय इस प्रदेख में दी गई सूचना भारत हेतु इलेक्ट्रिकल्स की सम्पत्ति है इसका प्रत्यक्ष एवं अप्रत्यक्ष रूप से किसी भी तरह प्रयोग, जो कि कंपनी के हित में हानिकारक हो न किया जाए।	8.0 Test Certificate : Following documents test certificate shall be furnished by the supplier along with supply. i) All test certificates (Chemical, Mechanical, Hydraulic, Eddy current test etc.), for bare tube as specified in drawing and specification. ii) Test certificate of fin material. iii) Test certificate for fin to tube bonding strength. iv) Test report of Hydraulic test after finning. v) Inspection Report of finished finned tube. The test certificates shall bear the following information- 1. BHEL References : BHEL Order No. 2. Supplier's References : As per base standard referred on the drawing.					
दिनांक एवं हस्ताक्षर SIGN & DATE 11/16/13	9.0 Packing and Marking : Tubes shall be packed suitably to avoid any damage of tubes during handling, transportation and storage. Suitable supports for tubes may be provided in packing box to avoid the damage on fins.					
सामग्री सूची संख्या INVENTORY NO. P-6438	REV.NO. 01	10.0 Referred Standards : 1. ASTM B111 C70600 2. ASTM C11000 3. IS:1921 Gr 35 4. ASME, Sec VIII, Div1		निर्माणकर्ता WORKED BY ASHISH GUPTA	जांचकर्ता CHECKED BY SHASHI KANT	29/5/13 01/06/2013

सामग्री सूची संख्या को
 SUPERSEDES INVENTORY

ANNEXURE-I

TESTING PROCEDURE FOR BONDING STRENGTH BETWEEN FINS AND TUBE

Type test for testing the mechanical bonding strength between Fins and Tube shall be done by vendor in presence of BHEL representative.

Sample Size:

1. One number (randomly selected) cut finned tube of 150 mm length.
2. Obtain a sector chord of 12 mm at the root of the fin.

Procedure:

1. Make a suitable arrangement to tag or make hook so that 5Kg load may be suspended on fin(as shown in fig-1).
2. Force of 5Kg to be suspended on fin of sample for 10 minutes.

Acceptance:

1. There should not be any crack or gap at root of fin (joint of fin and tube).
2. Type test report is valid for a period of one year incase process parameter (machine number, speed, feed temperature etc), material and dimensions are not changed.

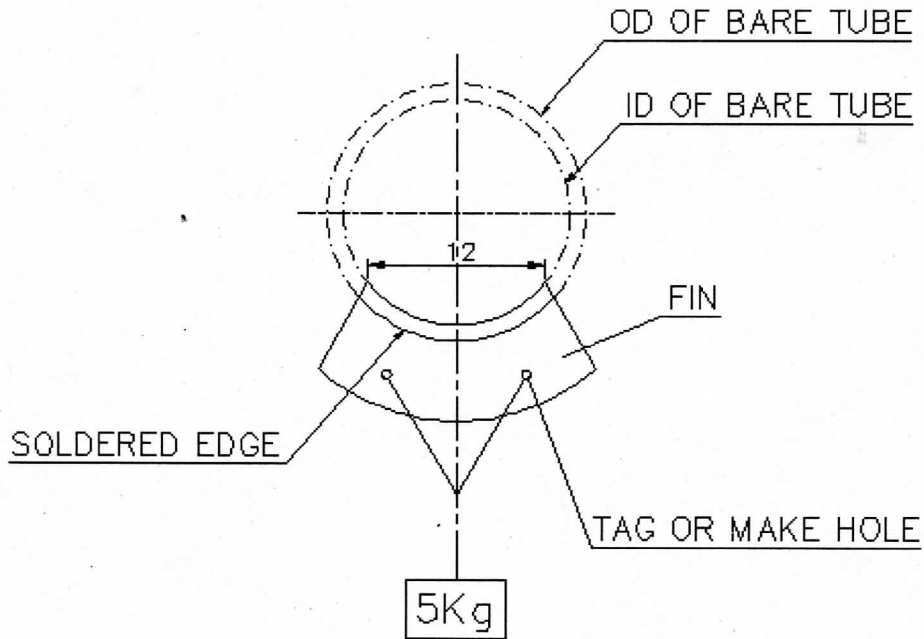


Fig-1

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स्वत्वाधिकार एवं गोपनीय
 इस प्रलेख में दी गई सूचना भारत हेवी इलेक्ट्रिकल्स की सम्पत्ति है. इसका प्रत्यक्ष एवं अप्रत्यक्ष रूप से किसी भी तरह प्रयोग, जो कि कंपनी के हित में हानिकारक हो न किया जाए।

हस्ताक्षर एवं दिनांक
SIGN & DATE
[Signature] 1/6/13

सामग्री सूची संख्या
INVENTORY NO.
 P-6438

REV.NO.	01
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निर्माणकर्ता WORKED BY	ASHISH GUPTA	<i>Ashish</i>	29/5/13
जांचकर्ता CHECKED BY	SHASHI KANT	<i>Skant</i>	01/06 2013

ANNEXURE- V

(Quality Plan Format)

ANNEXURE- VI

(Drawing no-21660170058 Var 01 Rev 01)

ANNEXURE-VII

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 (THROUGH A SERVICE PROVIDER)**. The philosophy followed for reverse auction shall be English Reverse (No ties).

1. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.
2. Those bidders who have given their acceptance for Reverse Auction (quoted against this tender enquiry) will have to necessarily submit „online sealed bid“ in the Reverse Auction. Non-submission of „online sealed bid“ by the bidder for any of the eligible items for which techno-commercially qualified, will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue.
3. 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.
4. In case of reverse auction, BHEL will inform the bidders the details of Service Provider to enable them to contact & get trained.
5. Business rules like event date, time, bid decrement, extension etc. also will be communicated through service provider for compliance.
6. Bidders have to fax the Compliance form (Annexure VIII) before start of Reverse auction. Without this, the bidder will not be eligible to participate in the event.
7. In line with the NIT terms, 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 bidder to enable them to fill-in the price and keep it ready for keying in during the Auction.
8. Reverse auction will be conducted on scheduled date & time.
9. At the end of Reverse Auction event, the lowest bidder value will be known on auction portal.
10. The lowest bidder has to fax/e-mail the duly signed and filled-in prescribed format for price breakup including that of line items, if required, (**Annexure IX**) as provided on case-to-case basis to Service provider within two working days of Auction without fail.
11. 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.
12. Bidders shall be required to read the “Terms and Conditions” section of the auctions site of Service provider, using the Login IDs and passwords given to them by the service provider before reverse auction event. Bidders should acquaint themselves of the „Business Rules of Reverse Auction“, which will be communicated before the Reverse Auction.

13. 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*, shall be initiated by BHEL and the results of the RA scrapped/ aborted.
14. The Bidder shall not divulge either his Bids or any other exclusive details of BHEL to any other party.
- 15. In case BHEL decides to go for reverse auction, the H1 bidder (whose quote is highest in online sealed bid) may not be allowed to participate in further RA process.**

ANNEXURE-VIII

Process Compliance Form

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

To
Name & Address of Service Provider
For Reverse Auction (Will be informed
Later)

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 {Items} against BHEL enquiry/ RFQ no. **F/T237/2016/0386H**.

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 Terms & Conditions 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 email/ fax the price confirmation & break up of our quoted price (including that of line items) as per **Annexure - IX** 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 Service provider of Reverse Auction

We, hereby confirm that we will honor 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 it to Service provider of Reverse Auction at 24 Hrs prior to start of the Event.
- Attach a signed copy of the RFQ document along with the Agreement Form/ Process Compliance form and send to Service provider of Reverse Auction.

ANNEXURE-IX

RA price confirmation and breakup

To

Name & Address of Service Provider
For Reverse Auction (Will be informed
Later)

CC: M/s BHEL
Heavy Electricals Equipment Plant, Haridwar

Sub: **Final price quoted during Reverse Auction and price breakup**

Dear Sir,

We confirm that we have quoted.

Rs.{_____} for item covered under tender enquiry No. F/T237/2016/0386H.

Total price of the items covered under above cited enquiries is inclusive of
{Packing & forwarding, E.D., C.S.T., freight and insurance charges up to
BHEL Haridwar District Haridwar state- Uttarakhand and Type Test Charges etc., (exclusive of
service tax), other as per NIT}

as our final landed prices as quoted during the Reverse Auction conducted today
{date} which will be valid for a period of 60 days.

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

Total

-Rs.

=====
=====

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

Yours sincerely,

For _____

Name: Company:

Date:

Seal:

ANNEXURE-X

Certificate by Chartered Accountant on letter head

This is to Certify that M/s
(hereinafter referred to as 'company') having its registered office atis
registered under MSMED Act 2006, (Entrepreneur Memorandum No (Part- II)
.....dtd:.....,
Category:.....(Micro/Small).(copy enclosed).

Further verified from the Books of Accounts that the investment of the company as
on dateas per MSMED Act 2006 is as follows:

1. **For Manufacturing Enterprises:** Investment in plant and machinery (i.e. original cost excluding land and building and the items specified by the Ministry of Small Scale Industries vide its notification No. S.O.1722(E) dated October 5, 2006:
Rs.....Lacs
2. **For Service Enterprises:** Investment in equipment (original cost excluding land and building and furniture, fittings and other items not directly related to the service rendered or as may be notified under the MSMED act, 2006:
Rs.....Lacs

(Strike off whichever is not applicable)

The above investment of RsLacs is within permissible limit of Rs..... Lacs for
.....micro / small (Strike off which is not applicable) Category under MSMED Act 2006.

Or

The company has been graduated from its original category (Micro / Small) (**Strike off whichever is not applicable**) and the date of graduation of such enterprises from its original category is
(dd/mm/yyyy) which is within the period of 3 years from the date of graduation of such enterprises from
its original category as notified vide S.O. No. 3322(E) dated 01.11.2013 published in the gazette notification
dated 04.11.2013 by Ministry of MSME.

Date:

(Signature)

Name-

Membership Number-

Seal of Chartered Accountant

ANNEXURE-XI

PRICE VARIATION FORMULA FOR HIGH FIN (WRAPPED ON) TUBE (W96716601503)

S.No	Material code	Total Wt. of one finned tube (in Kg)	Total Copper used in one tube (in Kg)	Total Nickel used in one tube (in Kg)	% Cu (Y)	% Ni (Z)
1	W96716601503	3.647	3.377	0.184	92.60	5.05

Vendor to quote Basic rate of Cu & Ni on the "Date of Enquiry" & fabrication charges separately based on below mentioned formula.

$[(\text{Basic Rate of Cu} \times 0.9260) + (\text{Basic rate of Ni} \times 0.0505)] \times \text{Ex (o)} + \text{Conversion/ fabrication Charges.}$

- **Exchange Rate (Ex (o)):** The exchange rate (TT selling rate of SBI) on the "Date of Enquiry" (previous day in case of holiday).
- **Date of Enquiry:** Date mentioned in tender document.

Documentary evidence for rate of Cu & Ni are to be submitted along with the offer.

PVC for payment purpose

Basic rate of Cu & Ni as quoted by the vendor will be firm till execution of order and % variation of LME prices of Cu & Ni will be given to vendor as described below.

- **Percentage Variation of Cu:** $\frac{\{\text{Cu (p)} - \text{Cu (o)}\}}{\text{Cu (o)}} \times 100$
- **Cu (p):** Average cash Official LME prices of Cu in USD/MT from www.metalprices.com one month prior to the date of contractual delivery or actual delivery (previous day in case, LME rate are not published or holiday), whichever is later.
- **Cu (o):** Average cash Official LME prices of Cu in USD/MT from www.metalprices.com on the "Date of Enquiry" (previous day in case, LME rate are not published or holiday).
- **Percentage Variation of Ni:** $\frac{\{\text{Ni (p)} - \text{Ni (o)}\}}{\text{Ni (o)}} \times 100$
- **Ni (p):** Average cash Official LME prices of Ni in USD/MT from www.metalprices.com one month prior to the date of contractual delivery or actual delivery (previous day in case, LME rate are not published or holiday), whichever is later.
- **Ni (o):** Average cash Official LME prices of Ni in USD/MT from www.metalprices.com on the "Date of Enquiry" (previous day in case, LME rate are not published or holiday).

Final Prices = $\{[\text{Basic Rate of Cu} \times (1 + \text{Percentage Variation of Cu}) \times 0.9260] + [\text{Basic Rate of Ni} \times (1 + \text{Percentage Variation of Ni}) \times 0.0505] \times \text{Ex (o)} + \text{Conversion/ fabrication Charges.}$



आर. एस. चौहान
वरिष्ठ प्रबन्धक (क्रय-एफ. एवं एच.ई.)
बी.एच.ई.एल., हीप, हरिद्वार