



BHARAT HEAVY ELECTRICALS LIMITED
HARDWAR-249 403 (UA)
Fax: 01334-226462, Phone: 281644
E-mail: v_singh@bhelhwr.co.in

Due Date: 15/01/2015

Ref: PPX/EM/EOI/14-15/Rotor Hollow Copper Conductor

Notice Inviting Expression of Interest for empanelment of New Vendors

The Heavy Electrical Equipment Plant (HEEP) located in Haridwar, is one of the major manufacturing plants of BHEL. The core business of HEEP includes design and manufacture of large steam and gas turbines, turbo generators, hydro turbines and generators and so on. **We are looking for reputed Vendors having capability to supply Rotor Hollow Copper Conductors. The specification of these items may be obtained from BHEL after submission of Ink Signed Non-Disclosure Agreement. The Non-Disclosure Agreement is to be submitted to the following person (s) for obtaining Specifications:**

Contact Person 1:

Mr. Amit Tiwari
Designation: Sr. Manager (PPX/EM)
Email ID: atiwari@bhelhwr.co.in
Tel: +91 1334 28 4047

Contact Person 2:

Mr. Virendra Singh
Designation: Sr. Engineer (PPX/EM)
Email ID: v_singh@bhelhwr.co.in
Tel: +91 1334 28 1644

The offers received will be technically evaluated by BHEL & successful short listed parties will be further considered for registration at BHEL Haridwar. Vendors shall confirm that there is no deviation with respect to BHEL Specifications & drawings. However, deviations, if any, are to be listed as a separate attachment. The offers that do not meet the substantial requirements of our specifications are liable to be ignored. **Following documents are to be necessarily filled and submitted along with the technical offer:**

1. Details/ Documents in support of Pre-Qualification Requirement (**Annexure-1, Page-3 & 4**)
2. Non-Disclosure Agreement (**Annexure-4**)
3. Supplier/Vendor Registration Form. (Indigenous/Foreign as applicable) (**Annexure-2 for Indigenous vendors, Annexure-3 for Foreign vendors**)
4. Quality control documents / procedure.
5. Details of Manufacturing Facility
6. Company Profile.
7. Financial report of the company.
8. Past experience along with documentary proof.

Only Technical BID along with the documents mentioned above should be sent & the envelope containing the offer shall be duly sealed and super scribed as **"Technical Offer for (ITEM NAME) AGAINST Reference No. PPX/EM/EOI/14-15/ Rotor Hollow Copper Conductors, SUBMITTED BY (Name of company)"**

The last date for submission of Technical offers is 15.01.2015.

- This notification shall be published in National Dailies (Name with date of publication will be mentioned on BHEL Haridwar portal). Last date for downloading tender documents shall be **15.01.2015** till 1300 Hrs (IST). The Technical Offers complete in all respect must be addressed to "Shri M K Sardana, AGM (PPX/EM)" **and should reach before 1345 Hrs (IST) on 15.01.2015**. Tenders will be opened on the same day at 1400Hrs (IST) in the Tender Room BHEL, HEEP, Haridwar.
- Late offers will not be considered in any case. BHEL will not be responsible for any type of postal delay / incomplete information from vendor.
- EMD & Tender fee are not applicable.



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- The Quotation should be from the Principle / Original Manufacturer, falling which the Quotation is likely to be ignored. In case the quotation is submitted through agent, the quotation must accompany original authorization letter from Principle / Original Manufacturer.
- Amendments / Corrigendum, if any, will be hosted on our website only.
- For any further clarifications, feel free to contact at the detail provided above or log on to www.bhel.com or www.bhelhwr.co.in or www.tenders.gov.in or www.eprocure.gov.in

AGM (PPX-EM)
BHEL Haridwar



Due Date: 15/01/2015

REF. EME-B/PQR11

Date: 18.01.2014

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PRE-QUALIFICATION REQUIREMENTS (TECHNICAL) FOR
ROTOR HOLLOW COPPER CONDUCTORS

1. EXPERIENCE:

- 1.1. The vendor should have manufactured and supplied phosphorous de-oxidized SILVER BEARING HOLLOW COPPER CONDUCTOR PROFILES of material grade CuAg0.1P meeting following mechanical properties and conductivity requirements for rotor windings of large size Turbo-generators with rating ≥ 500 MW to reputed power equipment manufacturers world-wide for at least last 3 years:

PROPERTIES	2-DUCT STRAIGHT	1-DUCT OVERHANG
Tensile Strength	250-300 N/mm ²	200-250 N/mm ²
0.2 % Proof Strength	≥ 200 N/mm ²	≤ 120 N/mm ²
Elongation	$\geq 14\%$	$\geq 38\%$
Hardness	70-90 HB	45-70 HB
Electrical Conductivity	≥ 55 MS/m	

- 1.2. Vendor to furnish copies of Purchase Orders executed for above. Also vendor to provide documentary evidence of the acceptance of material like Acceptance Certificate or letter from Customer.
- 1.3. Vendor to give annual production capacity and output in MT for the last 3 years along with customer-wise break-up for Hollow Copper Conductors.
2. **MANUFACTURING FACILITIES:** The vendor should have facilities for manufacturing copper profiles like hot extrusion, cold drawing/rolling, etc. Vendor to furnish details (including make, model and year of manufacture) and technical specifications of the manufacturing facilities available along with photographs.
3. **MANUFACTURING PLAN:** Vendor to provide Manufacturing Plan giving particulars of the manufacturing processes.
4. **TESTING FACILITIES:** The vendor should have facilities for carrying out the following tests and provide details (including make, model and year of manufacture) of test equipment available at their works:
- Chemical Composition
 - Mechanical Testing
 - Electrical Conductivity
 - Hydrogen Embrittlement Test for checking Oxygen Freedom
 - Dimensional measurement & straightness checking

The testing facilities should be duly calibrated against measurement standards traceable to national or international measurement standards



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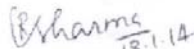
Due Date: 15/01/2015

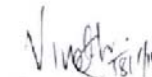
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5. The vendor should furnish copies of Test Certificates of previously supplied material.
6. The vendor shall source the raw material from reputed suppliers and shall furnish details of the same to BHEL along with Mill Test Certificate.
7. If the vendor plans to outsource any activity/testing, particulars of the same along with details of the sub-vendor/laboratory to be furnished to BHEL.
8. BHEL reserves the right to verify the information submitted by the vendor. In case the information is found to be false or incorrect, the offer shall be rejected.
9. Vendor to confirm detailed technical requirements given in the ordering specifications and drawings.
10. These pre-qualification requirements are not applicable for registered vendors of BHEL for this item.


(RC Sharma) 18.1.14
SDGM (EME)


(Vivek Kumar)
AGM (EME-B)


(AK Malhotra)
AGM (EME)