



BHARAT HEAVY ELECTRICALS LIMITED
HEEP: HARDWAR-249 403 (UA)
Fax: 01334-226462, Phone: 01334-28-1644
E-mail : agoyal@bhel.in

Due Date: 16-March-2020

Ref: PPX/EM/EOI/20-21/ Conducting Fleece Tape

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 Conducting Fleece Tape used in large size stator bars/bus bars for Large Size Turbo Generators.**

The specification of these items may be obtained from BHEL after submission of Ink Signed Non-Disclosure Agreement (Annexure-2). The Non-Disclosure Agreement is to be submitted to the following person (s) for obtaining Specifications:

Contact Person 1:

Mr. Ankur Goyal
Designation: Dy Manager (PPX/EM)
Email ID: agoyal@bhel.in
Tel: +91 1334 28 5203

Contact Person 2:

Mr. Ashim Dalui
Designation: Engineer (PPX/EM)
Email ID: ashim.dalui@bhel.in
Tel: +91 1334 28 5203

The offers received will be technically evaluated by BHEL & successful short listed parties will be asked to submit their detailed Techno-Commercial offers through formal NIT/Enquiry, for our future requirements. Vendors shall confirm that there is no deviation with respect to BHEL Specifications. 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**)
2. Non-Disclosure Agreement (**Annexure-2**)
3. Supplier/Vendor Registration Form. (Indigenous/Foreign as applicable)
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.
9. Details such as technical features, experience details, product catalogue, reference list or any other relevant information.
10. List of equipment's manufactured in-house.
11. List of Bought Out items along with vendors list of each equipment's with experience details with respect to size rating and years of operation.



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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/20-21/ Conducting Fleece Tape, SUBMITTED BY (Name of company)”**

The last date for submission of Technical offers is 16-March-2020.

- The Technical Offers complete in all respect must be addressed to “Shri B K Roy, AGM (PPX/EM)” **and should reach before 1345 Hrs (IST) on 16-March-2020.** Tenders will be opened on the same day at 1400Hrs (IST) in the Tender Room.
- 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.
- The Quotation should be from the Principle / Original Manufacturer, otherwise 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 the undersigned or log on to www.bhel.com or www.bhelhwr.co.in or www.tenders.gov.in

(Anil Kumar)
DGM (PPX-EMI)



Due Date: 16-March-2020

Annexure-1

**PRE-QUALIFICATION REQUIREMENTS (TECHNICAL) FOR
CONDUCTIVE FLEECE TAPE**

- 1. ITEM DESCRIPTION:** This tape is used as Internal Corona Protection layer in main body /ground wall insulation of winding bars of Turbo Generators. It is made electrically semi conducting after impregnation with Epoxy Resin hardener mix and shall have limit temperature $\geq 130^{\circ}\text{C}$ as per IEC 60216-1:2013.
- 2. EXPERIENCE:** The vendor should have manufactured and supplied Conductive Fleece Tape for Turbo-generators to reputed power plant equipment manufacturers world-wide during the last 7 years. The supplied material should have following properties:

Sl. No.	Parameter	Specified value
1	Thickness & Tolerance	0.09 - 0.02 mm
2	Width & Tolerance	60 $\pm$ 2 mm
3	Tensile strength (Max. Force)	≥ 3 N/mm
4	Elasticity at Max. force	$\leq 20\%$
5	Weight of the tape	40 $\pm$ 6 g/m ²
6	Conducting Fleece	It should be cut from Polyester Fleece
7	Impregnation	Polyester Fleece is to be impregnated with Graphite In Epoxy Resin, which is consistent and stable in Trichloroethylene and has a temperature resistance $\geq 130^{\circ}\text{C}$
8	Resistance	900 $\pm$ 300 Ω /sq
9	Surface Finish	It must be straight cut, uniformly impregnated, non-abrasive and porous. It should not be soft up to 85°C or become sticky. It must be free from defects, folds, cracks and inclusions. It should not dissolve or change in hot mixture of Epoxy Resin Bisphenol-A and Anhydride Hardener at 75°C
10	Shelf Life	Minimum 24 month at Room Temperature(25°C)

In support of which, vendor to submit the following documents: -

- a) Vendor should have manufactured and supplied the above material against at least 3 Purchase Orders in last 7 years from the date of enquiry. Vendor to furnish copies of Purchase Orders of the same.
 - b) Vendor to furnish Test Certificates (for dimensional, mechanical and electrical test, etc.) for the Purchase Orders furnished against Clause a).
 - c) End User Certificate: Vendor to furnish at least one Certificate from End User or Generator Manufacturer certifying that the Conductive Fleece Tape supplied by the vendor has been successfully used in manufacturing of winding bars of TG stator and the said Turbo-generator has been in operation for at least 1 year. The End User Certificate should be pertaining to any one of the above Purchase Orders.
- 3. MANUFACTURING FACILITY:** Vendor to confirm that they have all the in-house facilities for manufacturing this item.
 - 4. TESTING FACILITIES:** Vendor to confirm that they have all the in-house facilities for testing this item. If the vendor intends to outsource any testing activity, particulars of the same along with details of the laboratory to be furnished to BHEL.
 - 5.** 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. All the documents should be furnished in English language only. If the documents are not in English, then they must be accompanied by duly certified English translations of the same.