



**Ref: PPX/EM/EOI/20-21/ MC Sockets and Multi Contact Bands**

**Notice Inviting Expression of Interest for empanelment of New Vendors only**

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 MC Sockets and Multi Contact Band Tubes used in TGs.

**The specification / drawings of these items may be obtained from BHEL after submission of Ink Signed FCA (enclosed with EOI documents). The FCA is to be submitted to the following person for obtaining applicable Drawing / Specifications:**

**Contact Person 1:**

Mr. Advait Prakash  
Designation: Sr. Engineer (PPX/EM)  
Email ID: [advait@bhel.in](mailto:advait@bhel.in)  
Tel: +91 1334 28 5158, 4080

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 Drawing / 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. All Details/ Documents in support of EOI as per **Annexure-A & B**.
2. Quality control documents / procedure.
3. Details of Manufacturing Facility
4. Company Profile.
5. Financial report of the company.
6. Past experience along with documentary proof.
7. Details such as technical features, experience details, product catalogue, reference list or any other relevant information.
8. List of equipment's manufactured in-house.
9. 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.
10. Company registration certificates (PAN card/D&B report/ROC/CBEC/GST Certificate etc.). For final registration you have to fill the application form through online registration form [Suppliers.bhel.in](http://Suppliers.bhel.in).

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 **“EOI for (ITEM NAME) AGAINST Reference No. PPX/EM/EOI/20-21/MC Sockets and Multi Contact Bands, SUBMITTED BY (Name of company)”**.



The last date for submission of EOI is 13.11.2021 (before 13:45 Hrs. (IST)).

- The EOI complete in all respect must be addressed to “Shri Ashish Jain, AGM (PPX/EM), 4<sup>th</sup> Floor, Tender room, Main ADM. Building, HEEP- BHEL, Haridwar-249403, Uttarakhand” and should reach before 13:45 Hrs. (IST) on 13.11.2021.
- EOI will be opened on the same day at 14: 00 Hrs. (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](http://www.bhel.com).
- Items details for expression of Interest required are as follows: -

S No.	Item Description	Please also submit all the required Details as per
1.	<b>M.C Socket</b> Material Code - W96413503068, BHEL Drg. No 31350601092, Rev : 04	<b>ANNEXURE-A</b>
2.	<b>Multi Contact Band</b> Material Code - W96414300144, BHEL Drg. No 31430701000, Rev : 03	<b>ANNEXURE-B</b>
3.	<b>Multi Contact Band</b> Material Code - W96414300152, BHEL Drg. No 31430701001, Rev : 03	

(Advait Prakash)  
Sr. Engineer (PPX-EM)  
[advait@bhel.in](mailto:advait@bhel.in)

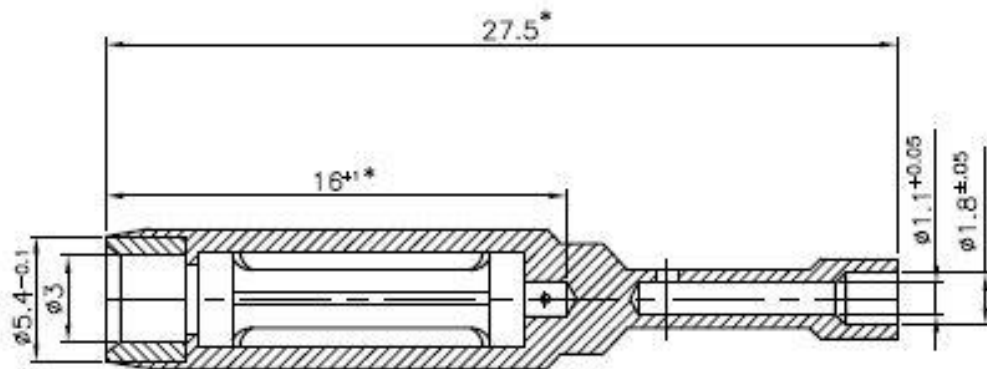


## Expression of Interest for MC-Socket

### Introduction:

Generally, the high rating turbo-generators are Hydrogen Cooled and inside pressure is in tune of 4-5 kg/cm<sup>2</sup>. A lead in plate or sealing plate is mounted on generator frame to take out control connections to outside generator. This lead in plate has embedded studs of 3mm dia. for electrical connections.

The MC-Socket is utilized to connect the wires to this 3 mm diameter pin from inside or outside the generator over lead in plate. MC-Socket should be of reliable and proven design to maintain the required electrical connection even under vibration of the Generator. In fact, it should maintain constant pressure to achieve good electrical connection. The material should be CuZn36Pb1.5F38 or equivalent. It is preferred that the vendor should have in-house manufacturing facilities. Tentative sketch is as follows



DIMENSIONS MARKED \* ARE FOR REFERENCE.



## Expression of Interest for Multi Contact Band

### Pre-Qualification Requirements (Technical) of Multi-Contact Bands for EOI (Material code W96414300144 & W96414300152)

The Multi-Contact bands are used for extremely critical application involving high current transfer between Exciter and TG rotors in large size Turbo-Generator sets. The current rating and contact pressure of MC bands are of the utmost importance.

#### Pre- Qualification Requirements:

1. The vendor should be a manufacturer & supplier of Multi-Contact Bands/ Lamella bands, etc. for high current transfer application. In support of this, vendor shall furnish their product catalogues and details of executed orders as per table below:

Purchase Order no.	Year of Supply	MC Band type	Current Rating	Quantity	Customer

2. Vendor shall furnish unpriced copies of at least three Purchase Orders from above list and corresponding test certificates.
3. **Manufacturing Facilities:** Vendor to confirm that they have all the required facilities to manufacture these MC Bands as per enquiry. Vendor to furnish details of their manufacturing facilities.
4. **Testing Facilities:** Vendor to confirm that they have all the required facilities to test these MC Bands as per enquiry. In case of outsourcing of any test, vendor to agree for testing at Government/International agency's accredited lab only. The details of the test facilities shall be furnished.
5. Vendor shall confirm to meet all the technical parameters mentioned in Drawing 31430701000, and 31430701001. Vendor shall also confirm that the Multi-Contact Bands manufactured by them shall fit/assemble in the sleeves and plugs/bolts with the assy details as mentioned in individual drawing.
6. Vendor shall furnish 5 Nos. samples of Multi-Contact bands supplied by them against point no. 1 above. The samples should preferably be close to the size mentioned in our drawings at point No. 5.

#### Note:

- a. All the documents and correspondence should be in English language.