

**Department of Materials Science and Engineering**  
**Indian Institute of Technology, Kanpur**

Call for quotation of Tensile Test module for EBSD-SEM

**Enquiry Number: IITK/MET/47-1**

**Enquiry date: 19/01/2015**

**Closing date: 05/02/2015**

We are interested in the purchase of **Tensile Test module with heating capacity** up to 500 °C or higher for Electron Back Scatter Diffraction facility in a FEI Scanning Electron Microscope Nova NanoSEM. The tensile stage should have minimum capacity of 2000N with ability to load, unload and reload the specimen in tension and compression in SEM. The stage should have attachment to facilitate in-situ testing in normal SEM mode and EBSD mode. The desired specifications of the equipment are given below:

1. Capacity: minimum 2000N and span of minimum 10 mm
3. Sample dimensions: Ability to study samples with different dimensions in tension and compression. Samples without holes for pins to facilitate gripping should be possible to test
4. Three point and four point bending module
5. Software to provide continuous video recording of SEM test being carried out.
6. Compatible with in-situ plasma cleaner
7. Software to handle test parameters like cross head velocity, strain and load
8. On-site training, installation and minimum 1 year warranty

**There should be scope for up-gradation in the future to include cyclic experiments and high temperature facility in the future.**

**Eligibility criteria:** Vendors should have prior experience in supplying and maintaining in-situ facilities in India. It is mandatory to submit at least five references (either PO/reference letters) of such systems being supplied in the last three years.

Interested vendors are encouraged to submit sealed quotations with technical specifications in the name of Dr. Nilesh Prakash Gurao by 5<sup>th</sup> February 2015. The quotations should reach

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