

Indian Institute of Technology Kanpur

Call for quotation: Special Specimen holders for HRTEM/Cryo-TEM

IITK/CHM/sverma3/2012,
Dated: 05.03.2012
Closing Date: 12.03.2012

We are interested in acquiring the following TEM holder for High resolution TEM lab. Quotations in sealed envelopes are invited from the prospective vendors/suppliers for these product.

The following minimum specifications have to be satisfied for each of the item.

Item 1. Single Tilt Liquid Nitrogen Cryo Transfer Holder with following specifications

- a. Frost-free specimen transfer with appropriate cryo-shields
- b. High resolution performance
- c. Stable specimen temperature should be provided to avoid thermal drift to ensure high resolution performance
- d. Specimen securing mechanism: Design should ensure thermal contact between the specimen holder and the frozen hydrated specimen grid
- e. Precise temperature measurement: Provision for monitoring and controlling the Temperature of the holder should be provided.

Item 2. Single Tilt Heating Holder along with accessories with following specifications

- a. **High performance materials:** Mechanical link between the heater and the stage is made of a material with near zero coefficient of expansion to minimize thermal drift (2 nm/min. at the highest operating temperature.
- b. **Effective temperature control:** Temperature at specimen holder tip must be maintained near the temperature of the specimen stage . The temperature variation to be $\pm 3^{\circ}$ or better from the set temperature.
- c. **Minimal heat loss design:** Heat loss from the furnace to the specimen tip to be minimized.
- d. **Tilt ranges:** $\pm 40^{\circ}$ or better
- e. **Temperature ranges:** 1000°C or higher
- f. **Compatibility :** Should be made compatible with any global TEM model to be specified at the time of placing order.

Terms and Conditions: As per IIT Kanpur Rules

1. All the claimed specifications of the machine and the attachment should be demonstrated after completion of the installation at our site.
2. IIT Kanpur reserves the sole right to decide on the technical specifications over and above the specified ones and best suited machine configuration with appropriate attachments/accessories/add-ons.

**Quotations should reach the following address
on or before 12 March, 2012 evening 5 pm in closed envelopes.**

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