

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE
JADAVPUR, KOLKATA-700032

Global Tender No : IACS/SSP/AJP/DIT/11/12-13

Sealed tenders are invited in two-bid system (**Technical Bid & Financial Bid**) for **“Probe Station with Probe Heads”** with the following specifications:

1. Four low resistance (contact resistance $<0.1\Omega$) probe heads (micro manipulator) having a magnetic adapter each to remain stack at the time of contact, with micropositioners for X movement of 50 mm, Y movement of 50 mm, and Z movement of 50 mm (resolution = 0.01 mm). A suitable vibration isolation table to be provided.
2. A video microscope (0.5 – 10X) for viewing movements of probe-heads during connection. The output of the microscope should be fed and viewed in an 11 inch external LCD display. The travel range of the microscope should be at least 50 mm \times 50 mm and clarity of resolution should be up to 0.30 μm .
3. Probes should be compatible separately for both low-current DC and AC measurements. For AC measurements, the frequency range should be between 1Hz-12 MHz.
4. Probe heads should have provisions to connect removable metal tips having a diameter of 50 micron to 1 mm.
5. Probes should be compatible with a temperature range from 0 $^{\circ}\text{C}$ to 200 $^{\circ}\text{C}$, current range from 10^{-15} amp to 2 amp, and capacitance range from 10^{-12} F to 10^{-6} F.
6. Chuck (150 mm diameter) should have Z axis movement (± 50 mm). In the base of the chuck, there should be a quartz plate (50 mm \times 50 mm) so that incident light can enter from the bottom of the chuck to the device that will be placed on the chuck.
7. Required spares and consumables: Non-oxidizing probe tips to make pressure contacts: gold (10 pieces), nickel alloy tips (10 pieces). Low resistive 2m BNC cables (8 Nos.) for connecting meters for measurements.

Pre-bid Meeting: August 22 (Wednesday), 2012 at 4:15 pm in the S. N. Bose Hall of IACS. Prospective bidders may attend the meeting to clarify technical specification, if any.

Last date of submission of sealed tender documents (marked separately as “Technical Bid” and “Financial Bid”) to Prof. A.J.Pal, Dept. of Solid State Physics, IACS, Jadavpur, Kolkata 700032, email: sspajp@iacs.res.in : August 31, 2012 (Friday), 4:00 pm.

At any time prior to the bid due date, IACS may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder during pre-bid meeting, modify the bidding documents. The amendment(s) will be notified on the Institute website. Prospective bidders are advised to occasionally visit the website for any amendment.

Opening of Technical Bids: September 4, 2012 (Tuesday), 4:15 pm in the S. N. Bose Hall of IACS.

Opening of Price-Bids: The Price Bids of the bidders qualifying the technical bid will be opened.

Date, time and venue will be informed to the successful bidders.

REGISTRAR