

Notice Inviting Quotation (NIQ)

Name of the Equipment: Thin Film Stress Measurement

Quotations are invited from reputed manufacturer / their Indian representative for the **Thin Film Stress Measurement system**.

Specifications

Date :04.11.2011

S No.	Feature	Specification	Compliance / Comments
1	General Description	Thin film stress measurement system based on wafer curvature measurement by laser scanning. Measures the radius of curvature of the wafer pre and post film deposition and using software calculation based on Stoney's equation gives the value of film stress. May be able to measure film stress on different substrates like Si, III-V wafers, transparent substrate, patterned wafers etc. Capable of the 2D/3D map profiles using motorized rotation stage.	
2	Wafer Size	50.8 to 200 mm (2 inch to 8 inch) diameter	
3	Scan Range	up to 194 mm	
4	Measurement range	$10^7 - 4 \times 10^{10}$ dynes/cm ²	
5	Sampling point	4000/100 mm approx.	
7	No. of Lasers and Class	Two lasers	Please specify the wavelengths and class of the laser
8	Auto adjustment	Auto adjustable intensity and Auto switching of the laser according to the sample reflectivity	
9	Average Curvature Resolution	55 km	
10	Repeatability	1% (1sigma) measured on standard mirror	Standards should be offered with system.

11	Operating temperature range	Room temperature	
12	Software feature	Gives profile of the curvature in 2D and 3D, and also provide data points in excel file.	
14	Accuracy	2.5% on 20 m radius curvature mirror or better	Standard mirror to be provided
15	Dimensions and weight		Provide the information
16	Computer requirement		Please specify
17	Power	220V/50 Hz	
18	User List	User list in India and abroad with contact person's name, phone No. and e-mail ID must be provided. Supplier may be asked to arrange for demonstration of identical or similar equipment already installed in India	
19	Spare parts	May be quoted separately for 5 year operation. The supply of spare parts must be guaranteed for minimum period of 10 years.	
20	Warranty	<ol style="list-style-type: none"> 1. Minimum 1 year warranty must be included in the price quoted, 2. Additional Warranty for 3 /5 years (onsite) should be quoted as option. 3. Additional years of AMC should be quoted separately. 	
21	Safety		Please specify

TERMS AND CONDITIONS COVERING SUBMISSION OF QUOTATIONS, IIT Delhi

1. Method of Submission of Quotations	<p>1. Quotations should be sent in a sealed cover and marked at the top “our NIQ reference, due date for opening, the name of the item etc.” The quotation must be in 2 separate sealed cover marked: “Technical Bid” and “Price Bid”</p> <p>2. The quotations should reach Prof. Sudhir Chandra, Block No. VI, Room No.-116 Nanoscale Research Facility, IIT Delhi, Hauz Khas, New Delhi 110016 latest by 5 PM, Wednesday, 30 November 2011</p>
2. Local Offices	Firms located outside Delhi having their local Branch Office at Delhi will supply the material through their Delhi Office
3. Taxes	No Sales tax concession under Form “C” and “D” is admissible to this Institute.
4. Validity of Quotation	The validity of the quotations must be for three months or more
5. Delivery and rate	The rates should be quoted in FOB and CIF (inclusive of freight, insurance), taxes, duty etc. as applicable.
6. Institute Rights	The Institute reserves the right to accept or reject any or all quotations without assigning any reason. The discretion of increasing or decreasing of the quantity demanded or selecting only one items out of all quoted also vests with the Institute.
7. Terms of Payment	<p>Our normal term of Payment is by (i) Letter of Credit for Foreign Suppliers (ii) for Indian Suppliers, by cheque within 30 days after receipt of goods/material in sound condition. Please note that advance payment will not be made.</p> <p>State clearly the Name and address of the Supplier to whom the order will be placed. Also mention the “Cheque/Draft to be made in favour of and payable at(City/Country).”</p>
8. Rejection	Late receipt of quotation and the same not conforming to the set procedures as above will be rejected
9. Discount / Rebate	Special discount/rebate wherever admissible keeping in view that the supplies are being made for educational purpose in respect of Public Institution of National importance may please also be indicated.
10. Warranty /Compliance/ Certificate of meeting specifications	To be clearly mentioned / provided by the Supplier.
11. Manufacturer’s name and full address and country of manufacturing	Must be provided
12. Certification of registration for sales agent	Must be provided