

**INDIAN INSTITUTE OF TECHNOLOGY DELHI  
HAUZ KHAS NEW DELHI**

Date: 18/03/2013

**Notice Inviting Quotation**

Quotations are invited for the purchase of **Sample Preparation and Analysis System** for the Department of Textile Technology. Interested suppliers are required to submit their quotations as per the specifications given below. The sealed Quotations are to be submitted in two Separate envelopes;

**A - for Technical Quote (Specifications) &**

**B - for Financial Quote.**

**(For details, see Annexure I)**

Both these envelopes should be enclosed in an outer envelope, which should also be sealed and addressed to, clearly mentioning on top right corner of the envelope "quotations for **Sample Preparation and Analysis System**"

**Dr. R. Alagirusamy**

**Professor**

**Room No. TX-217, Department of Textile Technology**

**IIT, Hauz Khas, New Delhi 110016**

The quotations should reach the above office of **by 5.00PM on 5 April 2013**. If needed, the suppliers may be asked to make a technical presentation before the committee. Institute reserves the right to accept or reject any of the offers without assigning any reasons.

**Specifications**

**1. Double Disc Polishing Machine**

Disc - Aluminum disc, Dia - 200 mm.,

Speed - variable 150-600RPM

Motor - 0.25 HP motor each for individual disc

Mandatory accessories: 1) Paper holding ring. 2) Cloth clamping band. 3) Polishing cloth.

**2. Inverted Metallurgical Motorized Stage Microscope with Image Analyzer**

**Microscope**

<b>Item</b>	<b>Specification</b>
Viewing Body	Seidentopf Binocular Head, inclined 30°, able to rotate a full 360°
Nose Piece	Quadruple
Motorized Stage Integrated mechanical stage size	150mm X 150mm; Range of motion 15mm X 15mm, with single spring Clip. Stage movement by joy stick.
Focusing Mechanism	Adjustable tension control, coarse and fine knobs with dial markings Adjustable Up-Stop
Illumination	6 volt, 20 watts Halogen bulbs with intensity control
Eyepieces	Wide field - 10X, 16X, 20X (Each in pair)
Objective Lens	Planchromatic 10X, 20X, 40X, 60X, 100X Dry
Microscope Accessories	Dust cover, color filter set, spare halogen lamp and fuse.

## Image Analyser

### Hardware

Digital Color CCD Camera with Hyper EXWAVE HAD CCD	1/2" High Resolution Sony Make. 1/2" type CCD with Exwave HAD technology, Effective picture elements 752 x 582 (H x V), PAL standard, Horizontal resolution 540 TV lines, S/N ratio Better than 57 dB (AGC OFF), Auto iris, Digital zoom OFF/x2/x4/x8/x16, Shutter 1/50 sec to 1/100,000 sec (12 steps), Back-light compensation OFF/iBLC/SPOT, Minimum illumination Color: 0.28 lx at F1.2 (50 IRE, AGC ON, Turbo mode), B/W: 0.005 lx at F1.2 (50 IRE, AGC ON, Turbo mode), Variable gamma, White balance ATW/ATW-PRO/3200K/5600K/Manual, Operating temperature -10°C to +50°C, Operating humidity 20% to 80%, Dimensions (W x H x D) 63 x 57 x 124 mm.
Image Grabber Card	High resolution Scientific Image grabber card with image grabbing software suitable for the metallography applications. Spatial Resolution: 640 x 480 (60 Hz); 768 x 576 (50 Hz) Video Format: Composite video and S-video (Y/C) formats; RS-170, RS-330, and NTSC (60 Hz) or CCIR and PAL (50 Hz); interlaced; software selectable. Inputs: 1 active input, composite or S-video, AC coupled Video Signal: 1volt peak to peak,75 ohms. It enables the acquisition of a standard monochrome, composite color, or S-video color image. American / German

### Software Modules

<ul style="list-style-type: none"><li>- Linear Measurement - Plating / coating / decarburization / banding measurement &amp; degree of orientation / decarb / interlamellar dist., dendritic arm spacing, defects etc.</li><li>- Movable Micron Marker</li><li>- Image Data base maintenance / management software with facility of comparison of images and Image gallery, report generation, macro imaging</li></ul>
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## Annexure I

**Envelope A: Technical Quote: The following details are to be enclosed** (*Mention clearly on this envelope – **Technical Quote***)

1. Technical brochures mentioning all details with complete address of the principals.
2. A compliance chart based on the specifications as per the NIQ.
3. Any optional equipment / accessory / spares advised to be included separately.
4. Installation requirements including gases and chillers, UPS, etc.
5. List and addresses of organizations where the equipment has been supplied in last 3 years in India.
6. Details of other equipment supplied to IIT Delhi specifying the Department/ centre / lab to which the equipment was supplied. Also mention if the equipment is being maintained by your organization.
7. Address of the technical office, in India, with telephone and FAX numbers. Kindly clarify the type of support available in India.
8. If quote is for imported equipment supplied through Indian Agent, Sole Agency-ship certificate on the letterhead of the principal company, if quotation is from an Indian Agent.
9. Proprietary Item Certificate from the principals, if applicable.

**Envelope B: Financial Quote: The following details are to be enclosed/ ensured.** (*Mention clearly on this envelope – **Financial Quote***)

1. The quotations for the equipment in foreign exchange, if it is to be imported. The cost of spares and optional equipment/accessories to be quoted separately. The cost should be based on CIF, New Delhi. If equipment is indigenous, the quote should be in INR and all taxes applicable should be mentioned clearly.
2. Institute makes payment after delivery and successful installation. In case the payment terms are different, it should be mentioned clearly. If equipment is to be imported, the address of the company in whose name the LC is to be opened should be stated.
3. The comprehensive Warranty period.
4. The details of the AMC after the warranty period.
5. Cost for Installation and training at site, if applicable.
6. Validity of the quote should be minimum 90 days.
7. The delivery period to be clearly specified.