

**Department of Mechanical Engineering
Indian Institute of Technology
Hauz Khas, New Delhi-110 016**

NOTICE INVITING QUOTATIONS

Dated: 01-09-2014

Subject: **NIQ for upgradation of Stereo Zoom Microscope software and hardware**

Invitation for Tender Offers

Indian Institute of Technology Delhi invites sealed tender offers in two bid format (Technical bid and Commercial bid) from eligible and experienced OEM (Original Equipment Manufacturer) OR OEM Authorized Dealer for **upgradation of software and hardware of available Stereo Zoom Microscope in Metrology lab, WS-111, IIT Delhi (Make- Carl Zeiss, Model - SteREO Discovery.V20, Camera - Axiocam ERc5s, Microscopy software – Axio Vision 4.8 for 32 bit system)** as per terms and conditions specified in the tender document.

The quotation should reach to Prof. P. V. Rao, Department of Mechanical Engineering, IIT Delhi, Hauz Khas, New Delhi – 110 016 latest by 5:00 P.M. on Dt. 15-09-2014. Late submission will not be considered.

Institute reserves the right to accept or reject any of the offers without assigning any reasons. The detailed specifications of each individual component of the system are given below:

TECHNICAL SPECIFICATION:

Package for hardware and software upgradation of current stereo zoom microscope should include the followings:

- *Surface imaging and analysis software* for confocal microscopes and compound microscopes for topographical research. It should be able to generate 3D topography and to do measurements from images of current microscope and camera.
- *System Control Panel* - color touch screen with LED back illumination and joystick.
- *Suitable controller* to work with quoted System control panel and current microscope
- *Suitable software module for acquisition of Z-stacks* using a motorized focus drive of current microscope
 - Automatic adjustment of step
 - Module should be able to control hardware also
 - Able to store and extract data for repeated acquisitions
- *Suitable topography module to create height maps* from acquired z-stack images
 - Generation of isometric 3D images
 - Measurement of roughness parameters (Ra, Rq, Rku: Rsk, Rv, Rp, Rt) according to ISO standards

- Generation of data tables and graphs containing roughness parameters
- Upgradation of current imaging software or supply of new software to work with a 64 bit system and should be compatible with all above mentioned modules and hardware.

All above software and hardware packages should be compatible with current available microscope and camera.

Terms & Conditions:

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

1. Letter from the manufacturer specifically to quote for this NIQ is to be attached for the authenticity of dealership/ agency and the dealer should be an authorized service provider.
2. Technical brochures mentioning all details with complete address of the principals.
3. Compliance statement for required specifications should be attached.
4. Firm MUST provide a compliance statement vis-à-vis specifications in a “tabular form” clearly stating the compliance and giving justification, if any supported by technical literature with clear reference of page number, paragraph or lines. This statement must be signed, with the company seal, by the tenderer for its authenticity and acceptance that any incorrect or ambiguous information found submitted will result in disqualification of the tender. The quotation should be complete in all respects. (As per IIT-Delhi rules).
5. Any optional equipment / accessory advised to be included in the quote.
6. A) List and addresses of organizations [in India and abroad – with contact landline numbers] where the equipment has been supplied in last 3 years. B) Address in India where a live demonstration of the instrument can be arranged, if possible.
7. A) Details of similar equipment supplied to preferably Indian Institute of Technology/ National Institute of Technology/Indian Institute of Science, India specifying the Department/Centre/lab to which the equipment was supplied, with references. B) Mention if the equipment is being maintained by your organization. Address of the technical office, in India, with telephone and FAX numbers. Please clarify the type of support available in India.
8. If quote is for imported equipment, Sole Agency-ship certificate on the letterhead of the principal company with current dates, if quotation is from an Indian Agent. This is MUST to qualify, in Technical Envelope
9. In case the items are proprietary products of the company, a proprietary item certificate stating the same may be provided with latest date.

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 are to be quoted separately. The cost should be based on FOB, Factory. If equipment is indigenous, the quote should be in INR. Taxes, terms and conditions should be clearly mentioned.
2. Institute makes payment after delivery and successful installation. The payment is by RTGS for which NEFT form need to be duly filled and complied. 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. Payment terms and conditions should be clearly mentioned. No advance payment is given by IIT Delhi for capital equipment.
4. Vendor should get a fresh certificate directly from their product principal's clearly mentioning about warranty for three years of the equipment to be delivered from the date of installation.
5. The details of the AMC after the warranty period should be clearly mentioned.
6. Validity of the quotation should be at least four months. Vendors will do the installation and demonstration of the equipment at IIT Delhi premises without any additional charges.
7. The delivery period to be clearly specified and should be at the earliest

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