



INDIAN INSTITUTE OF TECHNOLOGY ROPAR

-140001/Nangal Road, Rupnagar, Punjab-140001

Ph. 01881-242193, e-mail: purchase@iitrpr.ac.in

File No. 146-10/IITRPR/PS

21st February 2011

Notice Inviting Quotation For the purchase of

High resolution upright optical research microscope with differential contrast method, camera and software to capture and analyze the real time images

Sealed Quotations are invited in **Two Bid System** for the purchase and installation of above equipment. The detailed specifications with terms and conditions are attached herewith, as **Annexure-I & II**. The offers should be sent to **“The Registrar, Indian Institute of Technology Ropar, Room No. 104, Nangal Road, Rupnagar, Punjab, India-140001** with attention to Dr Rakesh Kumar, Department of Physics” so as to reach us **latest by 3pm on 11th March 2011**. The technical tenders will be opened on the same day at 3.30pm, in the presence of bidders, if any, in the Conference Room of IIT Ropar. The bidders are requested to send their offers as technical and financial bids separately in two sealed envelopes and enclosing them in a common sealed cover, duly superscribing the “Quotation for <Name of the Equipment>” and name of the bids i.e. Technical Bid & Price Bid on the covers of envelopes. Last date and time of the quotation should be written on the cover. Provide the Proprietary Nature Certificate from Principle Company (if applicable). **Submission of DD for ₹ 24,000.00 in favour of The Registrar, IIT Ropar is must along with the technical bid towards EMD, failing which your offer will not be considered. Delivery of the equipments will be REQUIRED IMMEDIATELY BUT NOT LATER THAN 8 WEEKS from the date of confirm purchase order.**

Encl. Annexure-I & II.

Annexure – I

Specifications for Microscope

- Two focusable and adjustable eyepiece of 10x/22mm
- High Resolution achromatic Universal Objective set of 5x, 10x, 20x, 50x, 100x
- Magnification Changer with 1x, 1.5x, 2.0x
- Bright and dark field imaging
- 3-gear focus drive for coarse, medium and fine focusing adjustment and adjustable focus stop
- 100W halogen lamps for transmitted and reflected light illumination
- Heat protection filter
- Colour filters (violet, blue, green and yellow)
- Centrabale aperture and field diaphragm
- Polarizer and analyzer with a rotation up to 180°
- XY stage and drive
- Infinity corrected & Harmonic Compensated (HCS) optical system
- IC Objective prism set for differential interference contrast
- Dust cover for complete set

2. Digital Camera

- High-resolution fire wire digital camera system with 7.0 Mega pixels resolution or better
- Colour Depth : 30 bits or better
- Exposure time - 100µsec – 2.0 sec or closer
- Frame rate – 30 frames per sec or closer
- Image manager (Database) Software for PC, with PCI Interface Card
- Fire Wire and fire wire cable

3. Software

- Allows to measures size, shape, position, orientation, intensity parameters for multiple individual features or particles
- Provides range of grey image processing methods to enhance image prior to analysis
- Performs threshold detection on colour and monochrome images
- Provides range of binary image processing methods to select features for analysis
- Allows user to modify, add, and delete selected features by manual image editing
- Allows a guard frame to be set to prevent errors in objects touching edge of image
- Shows a list of selected parameters for all features measured
- Uses measurement filtering to classify features for measurement
- Creates histograms to display the distribution of sizes and shapes
- Calculates a range of statistics for each parameter and for histograms
- Exports data to Excel to create user defined reports
- Analyses multiple images and accumulates data for them
- Uses Sequence Wizard to interactively establish setting of analysis

4. Microscope, Camera and software from one manufacturer for better compatibility and better results

Annexure – II

INSTRUCTIONS

1. **Prices should be quoted on FOB basis with separately mentioning of CIF charges.**
2. **Measurements/Weight: Net/Gross of the consignment should be mentioned clearly.**
3. Estimated sea-freight charges (if applicable) should be mentioned.
4. Name and address of the banker of your company should be mentioned in your offer.
5. **Payment/PBG: 100% will be made against Letter of Credit on the submission of Performance Bank Guarantee for 10% value, either by the principle company or by their Indian agent, valid for warranty period.**
6. Authorization letter from the principal should be attached (If applicable).
7. **Country of Origin of the quoted item should be mentioned.**
8. The Institute is registered with the Department of Scientific and Industrial Research, New Delhi for availing Customs Duty Exemption in terms of Govt. Notification No. 51/96-Customs and Central Excise Duty Exemption in terms of Govt. Notification No. 10/97-Central Excise.
9. Liquidated Damages: If the firm fails to execute the supply as per our purchase order in full or part as per the terms and conditions stipulated therein, the Institute can recover liquidated damages from the firm @1% per week of the value of undelivered stores, subject to a maximum of 10%. It will also be open to this institute to procure the required item(s) from any other source at the risk and expense of the firm.
10. Validity of offer: The offer should be valid for 90 days from the date of submission of bid.
11. Late tender: Tender received after due date and time will not be considered.
12. **Name and contact details of the premier educational Institutions to whom the quoted equipment has been supplied should be mentioned. If possible, copies of at least two purchase orders may be attached with the offer.**
13. Warranty: Warranty period should be clearly mentioned.
14. Opening of tenders: Quotations will be opened in the Conference Room of IIT Ropar, at the time and date mentioned in the tender. Date and time of commercial bid opening will be intimated to the technically qualified firm(s) separately.
15. **The suppliers must support the quoted specifications with the help of original printed manuals of the equipments and must highlight the specification details in the original manual.**
16. Service Facility: Supplier should mention about the possible service set up in India and how capable they are to provide after sales service.
17. The acceptance of the quotation will rest with the Director, IIT Ropar who does not bind himself to accept the lowest quotation and reserves the right to accept or reject any or all the quotations without assigning any reason thereof.
18. The bidders must submit a detailed compliance report vis-à-vis required specifications in the enclosed format, failing which the offer will be liable to be ignored.
19. Training, if required, should be included in your offer without any extra cost.
20. The manufacturer/supplier has to stand guarantee for the relocation of the instrument once the permanent campus of IIT Ropar gets ready for operation. Transportation of the equipment will be provided by us.

Registrar



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M/s **Labindia Instruments Pvt Ltd**
SCO 208-209, 4th floor, Basera Building
Sec-34A, Chadigarh-160 022

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For Registrar, IIT Ropar

**(Lagvish Kumar)
Asst Registrar**