## INDIAN INSTITUTE OF TECHNOLOGY KANPUR

## **DEPARTMENT OF MATERIAL SCIENCE & ENGINEERING**

Enquiry No : MSE/SS/2012-13 /29

Enquiry Dated: NOV 12, 2012 Closing Date NOV21, 2012

Dear Sir/Madam:

Requirements of a durable and long-lasting **upright metallurgical optical microscope** with following minimum specifications:

- 1. Modes: Reflection
- 2. Imaging: Bright field, dark field and polarized light
- 3. Objectives: High Resolution Achromatic 5X, 10X/0.25, 20X/0.40, 50X/0.75, 100X/1.25 (or nearest magnification/ NA) (all dry, i.e. no-oil. And nominal resolution at 100X should be approx 0.4 micro-meter or better)
- 4. Eyepiece: Binocular, 10X, focusable (atleast one with crosslines)
- 5. Filter: Inserting type filter (green, blue, yellow)
- 6. Focusing: Coaxial coarse and fine focusing adjustment. With rack and pinion mechanism fine focusing scale value 2 micro-meter
- 7. Stage: Fine motion XYZ stage with high z-axis resolution
- 8. Light Source: Halogen lamps (greater than or equal to 50W) with stabilized power supplies to work with standard 220/240V 50Hz input. Adjustable brightness
- 9. Calibration: Standard calibration reticule
- 10. Digital Camera: Good quality digital camera with minimum 3megapixels resolution and atleast 30fps, which can be connected to computer (computer not included, but if PC card is required, it should be included). Camera should be mounted on the microscope
- 11. A software included to do fundamental microscopic measurement and metallurgical analysis
- 12. Minimum 2 year warranty should be included
- 13. Optional: UV and IR filters to make it eye-safe

## Please note:

- a. All optical elements should be infinity corrected
- b. Quote separately for ex-works, FOB to country of origin and delivery to IITK
- c. Send complete details of the products
- d. Mention discount for educational institutes
- e. Send a proprietary certificate if this is a proprietary item of your company/ principal
- f. Include an authorization from the Principals for the agent/representatives
- g. Quotations must be valid for 60 days
- h. Delivery period should not be more than 4 weeks
- i. Payment terms: 90% on installation, 10% after satisfactory report (flexible)

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## *Terms & Conditions:*

- 1. Maximum educational discount, if any should be offered
- 2. Prices should be on CIF basis, IIT-Kanpur.
- 3. Prices should include the installation and training cost.
- 4. Warranty should at least be for three years after installation.
- 5. Validity of quotation should be at least for 60 days
- 6. Quotation should carry proper certifications like agency certificate, proprietary certificate, etc
- 7. Any other charges from your side should be specified

Kindly Send your best offer (Technical & financial) so as to reach us on or before Nov 21, 2012 to the following address-

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