

Enquiry No: MSE/AU/2012-13/44 (Revised)

Closing Date: 18/03/2013(Revised)

Enquiry for Optical Metallurgical Microscope,(Reflected Light)

Optical Microscope is required for Metallography Purpose.The microscope should have the following listed parts besides the normal other features and attachments.

Specifications for Optical Metallurgical Microscope

Sr No.	Parts	Specifications and Requirements
1.	Type	Upright type with infinity corrected optical system.
2.	Objective lens	*Objective lens of 5X/min.NA 0.15/Min. WD 10mm 10x/min. NA 0.25/Min. WD 6.0mm 20x/min. NA 0.4/Min. WD 3mm 50x/min. NA0.75/Min WD 0.9mm 100x/min. NA 0.9/Min WD 0.9mm *Type of Objective lens should be mentioned *Manufacturer name for the objective lens should be provided. *NA value should have been marked, the NA value for 50x lens should be minimum 0.75 and for the 100x lens it should be minimum 0.90. *Working distance value should have been marked *Linear Magnification Value should have been marked *Different Colour Codes should be there for different values of objective lenses
3.	Body	*Lamp house for approx 100W power *Variable Intensity facility *Nomarski DIC prism slider for reflected light *360 Degree rotation analyzer slider for reflected illumination tube *Polarizer slider for reflected illumination *Reflector for BF/DF * Coarse and fine focussing controller *Suitable no. of filters *Different types of diaphragms
4.	Camera for digital Colour Photography of metallographic samples	*The camera should be provided with necessary attachments with the microscope *High resolution camera with following specifications:- # ½ " colour CCD # 3 Mega Pixel #Resolution 2048 x 1536
5.	Software for Image Analysis	Latest Software should be provided with following basic applications

		<ul style="list-style-type: none"> *Point count measurement *Intercept count measurement *Linear Fraction Calculation *Area Fraction Calculation *Size distribution graphs and charts with all standard datas *grain size distribution as per ASTM Standard *Nodularity determination * Coating thickness measurement *Phase analysis *provision of good documentation facility
6.	Instrument Brochure	Detailed instrument Brochure should be provided which includes clear photograph of the instrument and which gives all the detail technical specifications of the instrument.

Terms and Conditions:

1. Maximum educational discount, if any.
 2. Prices should be on CIF/FOB separately (If imported).
 3. Prices should include the installation and training cost.
 4. Warranty should be at least for three years after installation.
 5. Validity for the quotation should be at least for 60 Days.
 6. Quotation should carry proper certificate like agency certificate, proprietary certificate etc. if any.
 7. Any other charges from your side should be specified.
 8. "Technical Bid" and "Financial Bid" should be sent separately in sealed envelope so as to reach the undersigned latest by 18/03/2013, till 5:00 pm.
 9. Soft copy of the quotations is also acceptable along with the hard copy of the quotation
- Due to time constraint.

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