



जवाहरलाल नेहरु उन्नत वैज्ञानिक अनुसंधान केन्द्र  
(मान्यता प्राप्त विश्वविद्यालय)

JAWAHARLAL NEHRU CENTRE FOR ADVANCED SCIENTIFIC RESEARCH  
(A Deemed University)

जक्कूर, बेंगलूर - 560 064, भारत / Jakkur P.O., Bangalore - 560 064. INDIA  
विज्ञान और प्रौद्योगिकी विभाग, भारत सरकार / Department of Science & Technology, Government of India

JNC/DST/GUK/4286/2015-2016/FE

24/09/2015

**Request for Quotation**

**Sub: Procurement of Optical Microscope for Wafer Inspection**

JNCASR is interested to procure one number of Optical Microscope for Wafer Inspection as per the broad specifications shown in Annexure – I. You may send the Technical specifications of the system you would be proposing and the commercial aspects of the same in two separate sealed covers on or before 4.00.P.M. on **13.10.2015**. A Technical committee of the Centre will evaluate the technical configurations and shortlist the Vendors for further considerations. If required a Techno-Commercial Meeting will be arranged with the shortlisted Vendors. For short listing the Vendor we consider both technical features and commercial advantages.

You may send the technical and commercial bids in two separately sealed covers addressed to the **Stores & Purchase Officer, JNCASR, Bangalore 560 064**. Please indicate taxes and duties, delivery schedules, after sales support and any other technical information in support of your offer.

**JNCASR Payment terms:-**

1. 100% Letter of Credit
2. 90% against documents through Bank
3. 10% against installation and commissioning, subject to 3(a).
- 3(a) Submission of 10% Performance Bank guarantee valid for one year from the date of installation and acceptance.
4. Warranty minimum two years from the date of supply/installation/acceptance.
5. Delivery within eight weeks from the date of LC opening.
6. Mode of shipment FCA basis under INCO Terms 2010.

(Dr. P. Chiranjeevi)  
Stores & Purchase Officer.



## ANNEXURE - 1

### Technical Specifications - Optical microscope for Wafer Inspection

- 1) High Resolution Optical Microscope for lithography/ photoresist pattern inspection with adjustable Transmitted Light and Incident Light aligned to mechanical aperture.
  - 2) Minimum 25mm manual Z drive, with coarse/fine/ultra fine (with 1-4 micron resolution) focusing, with upper and lower Z limit for objective/sample protection.
  - 3) 6 fold objective Turret.
  - 4) Neutral white LED-illumination for constant color temperature for both TL and IL.
  - 5) BF,OBL with Reflected light and Transmitted light.
  - 6) 10x Eyepiece with 30° viewing angle, interpupillary adjustment 55-75 mm.
  - 7) XY-Industry Stage for 4" wafer inspection with rotation.
  - 8) Objectives (Floutar grade or similar)
- (Kindly fill the following specifications)

Magnification	Numerical Aperture	Working distance
1.25x		
5x		
10x		
20x		
50x		
100x		
150x		

- 9) Digital Color Camera with Software (Optical microscope, Digital Camera and Software should be from the same manufacturer for better image quality), Image format JPEG/TIFF/BMP/PNG/HDR, 3 MP or better, fast live image capturing with frame rate not less than 30 fps, supporting operating systems Win7/Win8.
- 10) Simultaneous view on both eyepiece and monitor.
- 11) Software should be capable of report generation, micron marker along with basic measurement functions.
- 12) Dustcover for above microscope system.

डॉ. पी. चिरंजीवी / Dr P. Chiranjeevi  
प्रभारी, भंडार एवं क्रय / In-Charge, Stores & Purchase  
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