

**INDIAN INSTITUTE OF TECHNOLOGY DELHI
HAUZ KHAS, NEW DELHI-110016**

Ref. No: IITD/RP-02649/JJ

Date: 15-02-2013

NOTICE INVITING QUOTATIONS

Sub: Purchase of Bench Top SEM with coater and motorized tilting and rotating stage

Quotations are invited for the purchase of Bench Top Scanning Electron Microscope with coater and motorized tilting/rotating holder with specifications as given below. Quotations (technical and financial bids in separate envelopes) should reach by **5 PM on 15-03-2013**.

Sl. No.	Name of the Item with Specifications	Quantity
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I. Bench Top Scanning Electron Microscope with Motorized Tilting and Rotating holder		1
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| 1. Magnification | : | Minimum \leq 40X, Maximum \geq 60,000X |
| 2. Electron source | : | (a) Electron gun and Wehnelt cylinder
(should be pre-aligned and calibrated)
(b) Filament material: Tungsten |
| 3. Detectors | : | (a) Secondary electron detector and
(b) Backscattered electron detector |
| 4. Observation modes | : | High and low vacuum modes |
| 5. Accelerating voltage | : | Minimum \leq 5 kV, Maximum \geq 15 kV
(variable in 3 or more steps) |
| 6. Specimen stage | : | (a) X-Y translation stage (manual/motorized);
(b) Total translation distance \geq 35mm along
both X and Y axes |
| 7. Maximum sample size | : | Diameter \geq 60mm, Height \geq 45mm |
| 8. Working Distance | : | Minimum \leq 10mm, Maximum \geq 50mm
between sample and
objective |
| 9. Rotating Holder/Stage | : | (a) Motorized
(b) Range for tilt angle: 0° to +45°
(c) Range for rotation angle: 360°(continuous) |
| 10. Evacuation system | : | Turbo Molecular Pump |
| 11. Software | : | (a) Automatic adjustment of brightness and
focus
(b) Image format: TIFF, JPEG, BMP
(c) Measurement should be possible on captured image |
| 12. Power supply unit | : | Single phase AC, 240V, 50Hz |

II. Gold coater		1
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| 1. Coater | : | (a) Sputter target: Gold (Au)
(b) Evacuation: Rotary pump |
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- (c) Size of sample chamber: $\geq 80\text{mm } \phi$ (inner) x 100mm
- (d) Specimen target size $\geq 50\text{mm}$ diameter

III. Desktop PC

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- 1. PC :
 - (a) Processor: Intel Core i5 (2.5 GHz) or higher
 - (b) Operating System: appropriate OS that supports the software
 - (c) Memory: 2 GB DDR3 RAM or more
 - (d) HDD: 250 GB SATA or more
 - (e) LAN: 10/100/1000 Mbps Ethernet
 - (f) Optical drive and USB ports
 - (g) LCD monitor
- Submit the following information (without which the bid may be rejected) along with the technical bid
 - 1. Addresses (including Name of scientist, address, email and phone no.) where the **exact model** has been supplied **in India**.
 - 2. Addresses (including Name of scientist, address, email and phone no.) where a **similar model** has been supplied **in India**.
- All the technically successful bidders are required to give a **live demo of the exact model** at IIT Delhi (without which the financial bid will be rejected) on a specific date (which will be specified by IIT Delhi) before the evaluation of financial bid.

Your quotations should reach the latest by **5 PM** on **15-03-2013** in the name of
[Prof. M. Jagadesh Kumar, NRF, Block VI, Room No. 116, IIT Delhi, Hauz Khas, New Delhi 110016 (India)]

TERMS & CONDITIONS COVERING SUBMISSION OF QUOTATIONS

1. **PRICING:** Quote total in **F.O.B.** price.
2. **TERMS OF PAYMENT:** Letter of credit OR Payment against delivery (Wire Transfer after receipt of item).
3. **VALIDITY OF QUOTATIONS:** Quotations should be valid for a period of at least 60 days.
4. **WARRANTY:** Mention the warranty period in the quote. The manufacturer (agent) should separately quote for an AMC for 2 years after the expiry of warranty period.
5. **DEALERSHIP CERTIFICATE:** Letter from manufacturer to be attached for authenticity of dealership/agency. Quotations without authorized dealership certificate will be rejected.
6. **PROPRIETARY CERTIFICATE:** If the items are proprietary in nature, furnish a copy of the certificate
7. **INSTITUTE'S RIGHTS:** IIT Delhi reserves the rights of acceptance or rejection of any or all quotations.
8. **COMPLIANCE STATEMENT:** Please include a statement of compliance of all the above specifications
9. **SUBMISSION OF QUOTATIONS:** Quotations should be sent in a sealed cover marked at the top ITEM NAME AND DUE DATE. **The technical and financial bids should be sealed in separate envelopes before putting them together in the sealed cover.** (Please note that ALL of the above specifications must be fully met in the technical bid).
10. **REJECTION:** Quotations not conforming to the set procedure as above will be rejected.
11. **DISCOUNT/REBATES:** Special discounts/rebates, wherever admissible, keeping in view that the supplies are being provided for educational purpose in respect of public institution of national importance may please be indicated.