The Department of Chemical Engineering invites quotation for a **Scientific Monochrome/Color CCD Camera with C mount** with the following specifications.

1. Resolution: Better than 1390 X 1000 pixels
2. Pixel Size: 6.45 micron
3. Sensor format/Diagonal: (2/3) inch
4. Full well capacity: 16000 e @ full frame or better
5. Quantum efficiency: 65 % or more @ peak
6. Dark current: ≤ 1 e/pixel/s @ 23 deg C
7. Spectral range: 290-1100 nm
8. Dynamic Range A/D: 14 bit
9. A/D conversion factor: 1.0 e/count
10. Exposure time: 5μs-60s variable
11. Data interface: USB 2.0
12. Digital temperature compensation for noise reduction:
13. Readout Noise: 5….7 e- @12 MHz or lesser
14. Dual pixel scan rate
15. Non Linearity: < 1 %
16. Smear: < 0.002 %
17. Frame Rate@ full frame: 13 fps or better
18. Trigger input Signal: Software/TTL level.
19. Optical Interface: C Mount
20. Binning (Hor X Vert): 2 X 2 Pixel should be possible
21. Operating temperature: + 10 Deg C to 45 Deg C or more
22. Power consumption: < 4W
23. The camera must be CE Certified
24. Necessary cable and Software must be provided with the camera

Note:
1. Point by point compliance should be provided in the quotation.
2. Software feature should include an image recorder, b/w and color display, pseudo-look-up-tables; hot pixel correction, direct-record-to-file, image browser, histogram, preview, and many other helpful images acquire features.
3. The user list should be provided along with the quotation.
4. Camera should be compatible with the microscope with C-Mount thread
5. All system hardware and software should be from one manufacturer and should have total integral supply.

**Terms and conditions**
- The technical and commercial bids must be submitted in separate sealed envelopes subscribed with “Technical Bid” or "Commercial Bid" as appropriate. Both the technical and the commercial bids should be enclosed in an envelope subscribed "Quotation for CCD Camera with C mount“ and should be submitted to the undersigned.
• The supplier must be an authorized dealer/distributor of the principal/manufacturer and should furnish an authorization certificate from the principal/manufacturer. Quotations without authorization certificate will be rejected.
• CIF New Delhi prices should be quoted with all the terms and conditions i.e. applicable taxes, installation, warranty and delivery schedule.
• Warranty of at least one year is a must.
• Quotations must be valid for at least three months from the date of the NIQ.
• The supplier should provide a list of institutions in India with the details of the optical microscopes supplied and with the contact details of the institution/department.
• A special discount/rebate wherever admissible keeping in view that supplies are being made for educational purpose in respect of public institution of national importance may please be indicated.
• The institute reserves right to accept or reject any or all quotations without stating the reasons thereof.
• The quotations should reach Dr. Shalini Gupta, latest by 5.00 pm on 15 Nov 2011. Your quotations should be superscripted by our reference number given on the first page.

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