Notice for inviting quotations

Nano Research Facility
Indian Institute of Technology Delhi

Dt: 25-08-2011

Sub: Purchase of 1/2m imaging monochromator with UV-VIS and NIR detection attachments

Please send your quotation for purchase of above said item(s) as per specifications given below. Your quotations should reach latest by 5 PM on 09th September 2011. Quotations are solicited only for item manufactured by reputed company with proven past record of sales, supply and after-sale service.

Imaging Monochromator (1No.)
1. Focal length: 500mm or higher
2. F/# no.: 6.5 or lesser
3. Resolution: 0.05nm or better with 1200gr/mm grating and 10um slit
4. Triple grating turnet
5. One entrance slit, two exit ports to accommodate two array detectors (manual): slit width variable from 10µm (or less) to ~3mm; height upto 14mm; detector flanges for detectors.
6. Gratings (3Nos.; size: 68mmx68mm) to optimally cover the wavelength range 200nm to 1700nm

Detectors
1. UV/VIS spectroscopy CCD (1No.)
   1. CCD to cover 200nm to ~900nm with good quantum efficiency
   2. Format: 1024 x 255, 26um pixels; active area size 26x6mm or more
   3. Pixel well depth: greater than 390,000 electrons, dark current less than ~10^-4 e-/pixel/sec.
   4. Register well depth: 1M electrons or better
   5. Peltier (TE) cooling with option of achieving -100C (or less) detector temperature
   6. compatible to the above monochromator

2. NIR spectroscopy photodetector array (1No.)
   1. InGaAs detector to cover ~700nm to 1700nm
   2. Format: 512 x 1, 25um pixels,
   3. dark current 20ke-/pixel/sec., or less
   4. Quantum efficiency more than 80%
   5. Peltier (TE) cooling with option of achieving -90C (or less) detector temperature
   6. compatible to the above monochromator

Other requirements
- Both Monochromator and detectors should be controllable through USB port. Relevant controller software, drivers, electronics, cables should be provided. Relevant drivers for external programming (such as Labview) should be provide.
- Minimum of 1 year warranty is required.
TERMS & CONDITIONS COVERING SUBMISSION OF QUOTATIONS

1. Technical requirements
   1) All items are to be in **metric scale** only.
   2) The quotation must contain the following details, otherwise quotation cannot be considered.
      a. The quote must contain all the items.
      b. The technical bid must contain all the required specifications, drawings, graphs
         (transmission/reflection/response spectra of components if any) etc.
      c. Along with the technical bid, please enclose support documents related to previous sale of the
         above items(s) within India.

2. DELIVERY:
   The rates quoted must be for C.I.F. Delhi (Air Freight) (if required)

3. TERMS OF PAYMENT:
   100% payment on delivery and satisfactory installation

4. INSTITUTE’S RIGHTS:
   IIT Delhi reserves the rights of acceptance or rejection of any or all quotations.

5. VALIDITY OF QUOTATIONS:
   Quotations should be valid at least for a period of 3 months.

6. SUBMISSION OF QUOTATIONS:
   Both Technical and price bids are to be quoted separately in separate sealed covers. Both these bids should be sent in a sealed cover marked at the top **SUBJECT AND DUE DATE**

   **09th September 2011**

   Dr. G. Vijaya Prakash, Associate Professor
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   New Delhi 110 016, India.

   [Signature]

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