

**School of Biological Sciences**  
**Indian Institute of Technology Delhi**

16-01-2013

Sealed quotations are invited from reputed companies or their authorized representatives for supply of one unit of **Biolayer interferometry instrument**, conforming to the mentioned technical specifications (or superior than specified) and terms and conditions as prescribed under. Interested parties are requested to submit their sealed quotations in an envelope containing the financial and technical bids in separate sealed envelopes inside. The NIQ should be marked as “Quotation for Biolayer interferometry instrument” and addressed to The Coordinator School of Biological Sciences, Attn. to Dr. Tapan K. Chaudhuri, and submitted in the reception, School of Biological Sciences, Formerly IBM Building, Block -1A, Indian Institute of technology Delhi, Hauz Khas, New Delhi – 110016, latest by 4pm on February 04, 2013.

**SPECIFICATION FOR BIOLAYER INTERFEROMETRY INSTRUMENT**

1. The instrument should be a bench top system with the following minimum or better specification
2. The system should be capable of immobilizing biomolecules through their interaction with respective antibodies, ligands and by chemical interactions, covalent and non-covalent interactions.
3. System should measure association and dissociation rate constants and affinity of binding events ( $K_a$ ,  $K_d$ ,  $KD$ ).
4. System should work without any use of dye or labeling agent for detection of biomolecule-ligand interaction and kinetics experiments.
5. Detection should be independent of Refractive Index, pH or other changes in solution. Detection should be purely on interaction of analyte to sensor and should not be affected by RI, pH and other molecules in solution.  
(This is to establish specificity and reproducibility of the system)

6. System should have the provision to use single sample at a time.
7. System should have the capability to use the sample in drop mode and tube mode. ( The ligand solution can be used as a drop or in a tube in order to study the binding with immobilized biomolecules)
8. Analysis of crude sample, cell lysate, serum samples etc.should be possible.
9. Sample volume required for analysis in drop mode should be should be 10 ul or lesser and in the tube mode should be should be 500 ul or lesser.
10. Real time data acquisition and monitoring should be possible.
11. The system should come with suitable computer, Laser printer and software for operating the instrument, data acquisition and analysis of the data.
12. The system should come with suitable online UPS system.
13. The system should come with following sensors for biomolecular immobilization: (At least two packets of each type)
  - a. Ni-Nta coated
  - b. Amine reactive
  - c. Anti-penta his antibody coated
  - d. Anti-GST anti body coated
14. The system should come with suitable tubes for using the sample in tube modes. ( At least 500 numbers)
15. The system should come with essential spares (to be used for optical source)
16. Warranty should be for 3 years after installation and 2 yrs free AMC after expiry of warranty period.

## **Necessary Terms and Conditions:**

1. IIT Delhi is exempted from paying custom duty under notification No.51/96 (partially or fully) and necessary "Custom Duty Exemption Certificate" can be issued after providing following information.

- a) Shipping details i.e. Master Airway Bill No. and House Airway No. (if exists)
- b) Forwarder details i.e. Name, Contact No., etc.

Custom Duty Exemption Certificate will be issued to the shipment in the name of the Institute and Bills of Entry should be submitted to IIT Delhi later on.

2. Either the Indian agent on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender. If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product.

3. IIT Delhi is exempted from paying Excise Duty and necessary Excise Duty Exemption Certificate will be provided for which following information are required.

- a) Quotation with details of Basic Price, Rate & Amount on which ED is applicable.
- 4. Imported items should be quoted on FOB basis (Freight on Board) and FOB price be provided.
- 5. Three years comprehensive warranty after installation must be provided and 2 years free AMC must be provided after completion of warranty period.
- 6. Indian agent should be enlisted with the Department of expenditure, Ministry of Finance, Govt. of India.

### **Payment Options**

- Letter of Credit: 90% payment against shipping documents & balance 10% after satisfactory installation. For large purchase i.e. costing over Rs. 1 crore, 100% payment be made through LC.

Dr. Tapan K. Chaudhuri