NOTICE INVITING QUOTATIONS

Sub: Portable Tabletop Sputtering Unit with Multiple Targets

Sealed quotations in separate envelops of technical and commercial bid kept in a one sealed outer envelop are invited for purchase of a **Table Top Sputtering Unit with Multiple Targets** for microscopy samples as per specifications given below. Your sealed quotation should reach latest by 5 PM on 13/08/2012 to Prof. A. K. Ganguli Department of Chemistry, Indian Institute of Technology – Delhi (IIT Delhi), Hauz Khas, New Delhi - 110016. Your quotation should be superscribed “Quotation for Portable Tabletop Sputtering Unit with Multiple Targets due on 13/08/2012”.

**Specifications: Portable Tabletop Sputtering Unit with Multiple Targets**

**TECHNICAL SPECIFICATIONS**

- **Pumping characteristics:** Atmosphere to 4 x 10^{-6} Torr in 15 - 30 minutes in a clean and dry system
- **Substrate Holder:** Circular diameter 1cm to 4 cm
- **Two Sources:** Gold and Silver by DC / Pulsed DC sputtering
- **Sputtering Target:** 2” diameter

**VACUUM SYSTEM**

- **Vacuum chamber:** Approx. dia. 300 mm x 250 mm (ht) cylindrical with gaskets on both sides
- **Vacuum Pumps:** Turbo Molecular Pump, pumping speed 80 - 100 Lit/sec.
- **Rotary Pump:** Two stage direct driven vane type, Pumping Speed 100 - 200 lit/min (N2 Pumping speed)
- **Vacuum Gauge:** Active Pirani Gauge Head / Active Cold Cathode Gauge Head & Vacuum Indication (Digital) on Front Panel and Control unit
- **Chamber Vent Valve:** 1 no., Solenoid operated & KF10 compatible
- **Complete SS 304 Vacuum plumbing with KF 25 couplings with Viton O’rings and seals**

**POWER SUPPLY**

- **Mains supply:** 220V, AC, 50 Hz, ± 10 %, single phase
- **Pulse DC power to the sputtering chamber:** at least 300 W
- **Continuous power control**
- **Active arc suppression circuit**

**SYSTEM**

- **Portable tabletop stand alone system with total dimensions 1000 cm X 800 cm (Length X Width) and 600 cm height**

- **The company must have supplied same system in India to at least 5 institutes in the last 2 years**

**Gas Inlet**

- Gas inlet for Ar, ¼” Swagelok, fitting with Mass Flow Controller
Optional items
  Specification of Target: Ag and Au targets, 2” diameter 5 mm thick and 99.9% purity
  Quartz thickness Monitoring System
  Backing plates for mounting sputtering targets - 2 nos.
  All O’rings / gaskets - 1 set
  Set of essential tools - 1 set
  Rotary pump oil - 1 charge
  Fuses - 1 set

Terms & Conditions:

1. The quotations must have validity of at least three months.
2. Quotation must include insurance and air-freight charges, delivery period of the items
   addresses to The Indian Institute of Technology, Delhi, India and the prices have to be given
   on both “FOB” as well as “CIF” (CIF, New Delhi).
3. The products will be used for educational purposes. Any applicable academic institution
   discounts should be stated clearly in the commercial bid.
4. Detailed brochures should accompany in the technical bid.
5. If the bidder is an authorized dealer then the authorized Indian dealership certificate from
   the principles should be enclosed.
6. IEC certificate from the Ministry of Commerce may be enclosed alongwith the quotation in
   favour of Indian agent.
7. Minimum three year warranty required (preference will be given if additional warranty
   period provided)
8. Payment will be through irrevocable letter of credit for foreign supplier. For Indian supplier
   payment will be done after installation.
9. In case the items are proprietary products of the company, a “Proprietary item certificate”
   stating the same must be provided with the technical bid.
10. Training and installation should be provided free of cost.
11. List of end users should be provided.
12. Institute reserves the right to accept or reject any or all the quotations without assigning
    reasons thereof.