

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

Ref No: IITD/NRF/2395/CEQPT

Dated Nov 22, 2012

NOTICE INVITING QUOTATION

**Sub: Purchase of Electrochemical Quartz Crystal Microbalance with  
potentiostat/galvanostat from Project RP02395**

Sealed quotations in separate envelope of technical and commercial bid kept in a one sealed outer envelope are invited for purchase of an “**Electrochemical Quartz Crystal Microbalance with potentiostat/galvanostat**” as per specifications given below. Your sealed quotation should be reach latest by Dec 4, 2012 to **Prof. Vikram Kumar, Nano Research Facility (Block VI/116), Indian Institute of Technology Delhi, Hauz Khas, New Delhi-110016**. Your quotation should be superscribed ‘Quotation for **Electrochemical Quartz Crystal Microbalance with potentiostat/galvanostat**’ dated.

Specifications:

1. Electrochemical Quartz Crystal Microbalance

- Frequency range :  $\geq 8$  MHz
- Frequency resolution :  $\leq 0.1$ Hz
- Resonant resistance range: 10-16  $\Omega$
- Resistance resolution :  $\leq 0.1\Omega$
- Types of Cells : Static and Flow QCA Cell, Dip Cell
- Counter Electrode : Platinum Electrode
- Reference Electrode : Ag/AgCl Electrode, Calomel Reference electrode
- Working Electrodes : Au Electrodes(25 pcs), Pt Electrodes (25pcs)
- Standard Analytical Cell : Cell vial, Teflon cap Cover, Teflon ring, Electrodes  
Cell collar with clamp, Purge tube, Extra O-ring Perfloro, etc.,
- Peristaltic pump suitable for flow QCA Cell

2. Potentiostat/Galvanostat

- Compliance Voltage :  $\geq \pm 20$ V
- Current range : 10 $\mu$ A -  $\pm 800$ mA
- Applied Voltage range :  $\geq \pm 10$ V
- Voltage resolution :  $\leq 5\mu$ V
- Maximum Scan rate :
- Current resolution :  $\leq 760$ pA

**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 (FOB and CIF, New Delhi).
3. The products will be used for educational purposes. Any applicable academic institution discounts should be offered and stated.
4. Detailed Brochures should accompany the offer.
5. If the bidder is an authorized dealer then the authorized Indian dealership certificate from the principles should be enclosed.
6. Warranty details must be given.
7. Payment will be through irrevocable Letter of Credit.
8. In case the items are proprietary products of the company, a proprietary item certificate stating the same must be provided.
9. Training should be provided free of cost.
10. Institute reserves the right to accept or reject any or all the quotations without assigning reasons thereof.

Chairman, PFC