



# Department of Electrical Engineering, Indian Institute of Technology, Delhi

Hauz Khas, New-Delhi -110016, India

NIQ no. IITD/EE/PLN03-BEEN

Due Date: **30.11.2011, 5 PM**

## **Notice inviting quotations for a Programmable Syringe Pump**

Sealed quotations are invited for a programmable syringe pump. The purchase will be made through a two part bidding process. Technical and Financial bids have to be made separately. Complete technical information should be provided along with the Technical bid. Please refer to the page on Terms and Conditions for details on how and when to submit the Technical and Financial bids.

### **Required Specifications for the Programmable Syringe Pump**

1. The syringe pump should be able to take one or two syringes.
2. The minimum infusion rates should be least 8 pl/hr.
3. The advance per step should be less than 5 nm.
4. The syringe pump should have an easy-to-use keypad interface.
5. The syringe pump should have both infusion and withdrawal functions.
6. The syringe pump should be fully programmable with several programmable pumping phases that change pumping rates, set dispensing volumes, etc.
7. The syringe pump should be operational both stand-alone or from a computer.
8. The dispensing accuracy of the syringe pump should be +/-1%.
9. The warranty for the syringe pump should be at least 2 years

**Asst. Prof. A. Dhawan**  
(Principal Investigator)

## Terms and Conditions

1. Please submit the TECHNICAL and FINANCIAL bids in separate sealed envelopes. Mark the two envelopes clearly as "Technical Bid" and "Financial Bid" respectively. Both the sealed envelopes should be sent in a single sealed envelope, clearly marked as "Quotations for a programmable syringe pump". The quote should reach the following address on or before **30.11.2011, 5 PM**:

Dr. A. Dhawan  
Block II, Room 216,  
IIT Delhi, Hauz Khas,  
New Delhi, 110016, India

2. Please quote prices at FOB New Delhi, inclusive of all taxes and duties.
3. Quote should be in Indian Rupees for Indian agents, or in foreign currency, for foreign agents, and needs to be valid for at least three months.
4. Attach all the technical literature and a list of similar installations done in India.
5. If the quote is being submitted by a representative of the manufacturer, a valid agency-ship or dealership certificate authorizing the agent to quote to IIT Delhi on behalf of the manufacturers should be enclosed.
6. Complete set of manuals for the operation of the equipment should be given.
7. Clearly specify the installation requirements – such as space, power, frequency, environment etc.
8. If the item quoted is proprietary in nature, please enclose proprietary certificate from the principals stating, "Certified that \_\_\_\_\_ is a proprietary of M/s \_\_\_\_\_ and no other manufacturer makes this item."
9. Please attach a signed and stamped compliance chart for the specifications. The format of the compliance chart is attached to this document.
10. Please specify all of your terms and conditions clearly, including delivery period.
11. Preferred modes of payment for foreign agents are through letter of credit, or as payment on delivery. For Indian agents, typically payment is on delivery.
12. The Institute reserves the right to accept or reject any or all quotations without assigning any reasons thereof.

**Asst. Prof. A. Dhawan**  
(Principal Investigator)

# Compliance Chart

	Parameter	Requirement	Model Spec	Complies
1	Number of Syringes	One Syringe or Two Syringes		
2	Infusion rates	Minimum rate at least 8 pl/hr		
3	Advance Per Step	Less than 5 nm		
4	Easy-to-use Keypad interface	Present		
5	Infusion type	Both infusion and withdrawal		
6	Programmable	Program several pumping phases that change pumping rates, set dispensing volumes, insert pauses, etc.		
7	Operation mode	Stand-alone or from a computer		
8	Dispensing accuracy	+/-1%		
9	Warranty for the syringe pump	2 years		