

**Indian Institute of Technology - Kanpur**  
**Department of Biological Sciences & Bioengineering**

Enquiry Number: BSBE/IG/NC/DSK2, dated: 09/09/2004

**Sub.: Inquiry for the supply of Programmable Syringe Pumps**

Opening date: 09 September 2013 at 10:00 AM

Closing date: 16 September 2013 at 5:00 PM

Sealed quotes (technical bid and price bid separately sealed) are invited for the **Programmable Syringe Pumps** as per the specifications given in the next page.

Your quote should mention/include the following:

- Maximum discount if any should be offered and mentioned.
- Quoted price should include the cost for installation, warranty and required accessories (see below).
- Validity of the quote at least for 90 days.
- FOB (indicating port of shipment) and CIF (New Delhi) values should be quoted separately if import is required. For quotes in INR, the price quote should be for delivery at Kanpur.
- The quote should cover insurance for transport up to Kanpur.
- Indian agency commission if applicable (should be certified by the principal if no agency commission is applicable) in case of import.
- Authorization certificate from the principal if you are a local agent.
- Terms and conditions for the payment, including the banker's name of the principal and the account number, if any, for electronic transfer.
- Include proprietary item certificate if applicable.
- Technical literature to support your product (in technical bid).
- Users' list with contact address in technical bid.

The quote should reach the undersigned on or before 5 pm on or before 16 September 2013. The envelope should be marked as "**Programmable Syringe Pumps**".

The Head  
Department of Biological Sciences & Bioengineering  
Indian Institute of Technology,  
Kanpur 208016 (UP)

For any query, contact Dr. Dharendra S. Katti

## **Programmable Syringe Pumps**

Syringe pump setup with ability to create gradient flow profiles.

TYPE Microprocessor multiple syringe, infusion/withdrawal programmable

ACCURACY  $\pm 0.25\%$

REPRODUCIBILITY  $\pm 0.05\%$

SYRINGES: Plastic, glass or stainless steel

Size Minimum 0.5  $\mu\text{l}$

Size Maximum 140 ml

FLOW RATE: Minimum 1.56 pl/min

Maximum 215.8 ml/min

DISPLAY 4.3" WQVGA TFT Color Display with Touchpad

CONNECTORS: RS-232 9 pin D-Sub Connector

RS-485 6-position IEEE-1394 USB Type B

I/O & TTL 15 pin D-Sub Connector Footswitch Phono jack

LINEAR FORCE 34 kg (75 lbs) @ 100% force selection

STEP RESOLUTION 0.082  $\mu\text{m}/\text{step}$

VOLTAGE RANGE Universal input 100/240 VAC, 50/60 Hz

ACCESORRIES: 500uL Hamilton syringes Luer Lock [5 Nos.]

1/16 Tubing to male Luer Adaptor

1/16 Autoclavable tubing inner Dia 0.05 inch

Computer: Should be supplied with desktop computers (Two Nos.)