DEPARTMENT OF MECHANICAL ENGINEERING

INDIAN INSTITUTE OF TECHNOLOGY DELHI

Dated: September 16, 2015

Notice Inviting Quotations

Quotations are invited for the purchase of a Dual Channel Syringe Pump for microfluidics applications. More details on the desired specifications are provided below.

S. No.	Item	Technical Specification
1	Туре	Infusion & Withdraw pump
2	Accuracy	$\pm 0.5\%$ or better
3	Reproducibility	$\pm 0.05\%$ or better
4	Number of Syringes	2 or more
5	Syringe Size	Minimum - 0.5µl, Maximum - 10ml or better
6	Flow Rate	Minimum – 3.06 pl/min, Maximum – 11.7 ml/min or better
7	Voltage	240V AC, 50 Hz
8	Linear Force	13.6 kg or better
9	Mode of Operation	Continuous
10	Pusher Travel Rate	Minimum 0.36μm/min, Maximum 71.55mm/min (or better)
11	Step Rate	Minimum 27.5sec/μstep, Maximum 26μsec/μstep (or better)
12	Step Resolution	0.17 μm/μstep or better
13	Motor Drive Control	Microprocessor with 1/16 microstepping or better
14	Connectors	Should have RS-232 and USB-type B connection or better
15	Display	Should have display on the pump with touchscreen
16	Regulatory Certifications	CE, ETL(UL, CSA), WEEE, EU RoHS & CB Scheme

17	Warranty	A minimum warranty of one year from the date of installation is required.
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Terms & Conditions

- 1. Technical and Commercial bids are required to be submitted in separate sealed envelopes. Both these envelopes can be enclosed in a single envelope which should be clearly labeled as "**Quotation for Dual Channel Syringe Pump**".
- 2. Compliance chart conforming to the specifications as per the NIQ should be attached along with technical bid. A bid without the compliance chart shall be rejected (Note: The Compliance chart should match the specification of NIQ)
- 3. The bidder must be a reputed OEM or an authorized local agent.
- 4. List and addresses of organizations in India where similar equipment has been supplied should be provided.
- 5. If there is any Indian agent associated with the foreign supplier, then an appropriate "Letter of Authorization" certificate has to be provided with the quotation.
- 6. Validity of the quotation should be at least 120 days from the date of submission.
- 7. Quotation must indicate a delivery schedule, which in no case should not exceed maximum of 8 weeks from the date of submission
- 8. Please indicate the cost as FOB, IIT Delhi.
- 9. Payment will be made after satisfactory installation as per IIT norms.
- 10. Installation, commissioning and staff training expenses are to be borne by the supplier.
- 11. The Institute reserves the right to accept/reject any or all quotation without assigning any reason.
- 12. Taxes as applicable should be indicated clearly.
- 13. No advance payment will be possible
- 14. Country of origin should be mentioned.

Sealed quotations should reach the undersigned on or before October 1, 2015 by 3:00 p.m.

Please quote best prices with appropriate discounts for academic institutions. The quotations can be sent to the undersigned:

Dr. Supreet Singh Bahga
Department of Mechanical Engineering
Indian Institute of Technology
Hauz Khas, New Delhi-110016