



DELHI TECHNOLOGICAL UNIVERSITY
Established by Govt of Delhi vide Act 6 of 2009
(Formerly Delhi College of Engineering)
Shahbad Daulatpur, Bawana Road, Delhi – 110042

MECHANICAL ENGINEERING DEPARTMENT

F. NO. DTU/MED/HOD/2022/1031/

DATE: 22.05.2025

NOTICE INVITING QUOTATION

On behalf of Delhi Technological University, the Mechanical Engineering Department invites a sealed quotation envelope for the procurement of a **Programmable Single and Double channel syringe Pump**. Sealed quotation should be sent to the **"HOD, Mechanical Engineering Department, Delhi Technological University, Delhi, Shahbad Daulatpur, Bawana Road Delhi, 110042"**

The quotations on the company's letterhead including GSTIN No. with File No. **(F.NO. DTU/MED/HOD/2022/1031)** written on the paper should reach the above-mentioned address at the latest by **09.06.2025, 23:59 PM**. The rate should be quoted and GST should be indicated separately as per the prevailing GST Laws in Indian National rupees (INR) & also mention the total amount in the words. The details of the **Programmable Single and Double Channel Syringe Pump** are as below in the table:

Sl.no.	Items & specifications	Qty (Nos.)	Rate quoted	Total cost quoted with GST
1	<u>Programmable single and double channel syringe Pump</u> Single channel syringe Pump <ul style="list-style-type: none">• 220 Volts• Operates stand-alone or from a computer• Pumping rate as low as 0.001 μL/hr with a 0.5 μL syringe• pumping rate as high as 35.33 mL/min with a 60 mL syringe• Motor type: Step motor• Continuous display of volume dispensing.• Automatic shut off of volume.• Unit selection choice.• Last settings stored in permanent memory.• Motor steps per revolution: 400• Micro stepping: 1/8 to 1/2 depending on motor speed• Advance per step: 0.2126 μM to 0.8504 μM depending on motor speed• Motor to drive screw ratio: 15/28• Drive screw pitch: 20 revolutions/"• Maximum speed: 5.1005 cm/min• Minimum speed: 0.004205 cm/hr• Number of syringes: 1• Syringe sizes: 0.5 μL to 140 mL.• Accuracy: $\pm 1\%$.• Reproducibility: $\pm 0.5\%$.• Maximum force: 100 lbs. at minimum speed, 18 lbs. at maximum speed• Power supply output rating: 12V DC @ 1000 mA	02		
2	Double channel Syringe Pump <ul style="list-style-type: none">• 220 Volts• Operates stand-alone or from a computer• pumping rate as low as 0.001 μL/hr/Channel with a 0.5 μL syringe• pumping rate as high as 208 mL/min/Channel with a 140 mL syringe• Motor type: Step motor• Continuous display of volume dispensing.• Automatic shut off of volume	01		


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<ul style="list-style-type: none"> • Last settings stored in permanent memory • Motor steps per revolution 200 • Micro stepping 1/8 to 1/2 depending on motor speed • Advance per step 0.42522321 μM to 1.7009 • Motor to drive screw ratio 15/28 • Drive screw pitch 20 revolutions/in • Maximum speed 18.36964 cm/min • Minimum speed 0.008409 cm/hr • Number of syringes 2 • Syringe sizes 0.5 μL to 140 mL • Accuracy $\pm 1\%$ • Reproducibility $\pm 0.5\%$ • Maximum force 100 lbs at minimum speed, 18 lbs at maximum speed • Power supply output rating 12V DC @ 1000 mA <p>Accessories Syringe Kit Large syringes with tubing and parts Small Syringe Kit</p>			
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Terms & conditions of the NIQ

1. The quoted Price should be inclusive of applicable GST
2. Product supplied must be of good quality
3. A datasheet of the above-said item should be provided
4. Details of service center declaration should be provided for the item
5. Warranty of the item should be a minimum of one year
6. Mode of payment would be subject to the satisfactory completion of supply and its verification of quality at the site / Micro & Nanoscale Thermofluidics lab has been carried out


22/05/25
(Prof. Rajesh Kumar)

In-Charge

Micro & Nano Scale Thermofluidics Lab

Copy to -

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2. Sr. Account officer, DTU
3. HOD CC, for uploading on the DTU website
4. Notice Board