UNDER POSTING OF CERTIFICATE

Sardar Vallabhbhai National Institute of Technology, Surat(GUJARAT)395007

Department of Chemical Engineering

Ref. No: DoChE/AAM/1158/2026 Date: 02/11/2026

SUB: Enquiry for Supply of Peristaltic Pump (Digital).

You are invited to quote your prices for purchase of **Peristaltic Pump (Digital)**. The quotation may be sent in a sealed envelope with the superscription **"Quotation with reference to the Enquiry No. DoChE/AAM/1158/2026"** addressed to **The Director, Sardar Vallabhbhai National Institute of Technology, Surat – 395007, Gujarat**, with kind attention to **Dr. Alka A. Mungray, Professor, Department of Chemical Engineering**. The quotation should reach the undersigned on or before **23/11/2026**.

The quotations should be furnish with the following information

1. The quotation for the above subject quote the rate and to be taken from our Institute includes labor charge, transportation etc. to take the time form various location of the institute.
2. If asked, samples are to accompany the quotations.
3. Tax, Custom duty, Insurance charges, packing and forwarding charges, if not included under the price quoted, should be clearly specified.
4. The period of validity of the quotation must be specified Offers subject to prior sale may please be avoided.
5. The supply period is to be clearly mentioned in the quotation.
6. The mode of delivery of the stores may be mentioned. The delivery should be F.O.R SVNIT, Surat.
7. All concessions available to an educational institution should be specified and also taken into account while quoting.
8. Payment will be made only after satisfactory of the supplied items.
9. Your specifications and terms conditions should be on your company letterhead & signed by an authorized person.
10. Offered Quotation may be rejected if any ambiguity is found in the offered specifications, terms & conditions supplied by the party in specified tabular format.
11. The Director/Institute reserves the right to accept stores which are not strictly in confirming with the specifications, but otherwise found suitable.

AKS 02/11/26

Yours faithfully,

02/11/26

Head, DoChE

Item Description

Sr. no.	Item	Quantity	Unit Price (Rs.)	Total Price (Rs.)
1	**Peristaltic Pump, Digital Flow Range (0.005-641mL/min)**	02		

Detailed Specifications:

Technical Specifications		
1	Pump type	Digital, variable-speed, Multi - channels (2-6) peristaltic pump for continuous liquid recirculation
2	Motor type	Electronically controlled stepper, brushless DC or servo motor
3	Speed range	Minimum 1–100 RPM or wider
4	Speed resolution	1 RPM or better
5	Speed accuracy	Within ±1% of set speed under steady-state operation
6	Flow-rate range	Adjustable flow of at least 0.005 - 641mL/min per channel with supplied pump head and tubing
7	Pressure capability	Minimum 5 bar continuous discharge pressure at 300 mL/min per channel including simultaneous operation
8	Flow calibration	Integrated user-performable flow calibration with correction of displayed flow setting per channel
9	Working modes	Continuous flow, timed operation and programmable start/stop for all channels
10	Programmable operation	Adjustable speed, operating time and automatic restart after power restoration
11	Pump head	Multi-channel, multi-roller pressure-rated pump head with replaceable tubing/hose element
12	Direction	Forward and reverse rotation
13	Back-suction	Programmable reverse rotation for back-suction operation
14	Display	Digital LCD/LED display showing speed, operating status and set flow rate
15	Control method	Local keypad/buttons with digital parameter adjustment
16	External control	External start/stop and speed control using analog or digital input
17	Communication	RS485/Modbus RTU or equivalent digital communication interface
18	Tubing material	Chemical-resistant pump tubing compatible with urine and aqueous solutions at pH 4–10

19	Tubing configuration	Supplied pressure-rated tubing/hose with appropriate connectors, capable of the specified 5-bar continuous duty for all channels
20	Operating temperature	Fluid temperature 15–40°C; ambient temperature 10–40°C
21	Power supply	220–240 V AC, 50 Hz, directly or through supplied power adapter
22	Pump protection	Motor overload protection and automatic shutdown on drive fault
23	Continuous operation	Minimum 8 hours uninterrupted operation at 300 mL/min and 5 bar
24	Accessories	Pump drive, multi-channel head, two tubing sets per channel, connectors and power accessories, power cable and operating manual
25	Warranty	Minimum 12 months warranty covering pump drive, motor, controller and pump head against manufacturing defects
26	Technical documentation	Manufacturer's catalogue, model-specific pressure–flow data, tubing specifications, calibration procedure and point-wise compliance statement. Manufacturer's datasheet confirming simultaneous multi-channel pressure–flow performance

Mandatory Technical Acceptance Conditions

1. The supplied pump shall demonstrate a minimum flow of 300 mL/min at 5 bar discharge pressure during an acceptance test.
2. Flow calibration shall be performed using water and the supplied tubing.
3. The pump shall demonstrate continuous operation for 8 hours at the specified duty point without drive fault, leakage or loss of required flow.
4. The pump shall demonstrate forward/reverse operation, timed operation and external start/stop control.
5. The supplied tubing/hose and connections shall be rated for the specified continuous pressure.
6. The pump shall include an appropriate overpressure protection arrangement, with the relief setting not exceeding the weakest component's rated pressure.
7. The bidder shall submit a point-wise compliance statement supported by manufacturer documentation. Equivalent or superior products meeting all mandatory requirements shall be accepted.
8. PAN Card: The bidder must submit a clear, self-attested photocopy of a valid PAN card in the name of the bidding firm/proprietor, as applicable.

9. Original Manufacturer's Technical Datasheet: The bidder must submit the original manufacturer's technical catalogue/datasheet of the exact model offered, clearly indicating the manufacturer name, model number, technical specifications, operating pressure, flow-rate range, motor specifications, pump-head details and tubing compatibility. Generic catalogues without identification of the offered model shall not be accepted.
10. Previous Supply Experience: The bidder must submit documentary evidence of previous supply of at least one peristaltic pump of similar technical specifications to any IIT, NIT, Central/State University, Government Research Institute, CSIR Laboratory or other recognized educational/research institution.
11. Technical Compliance Statement: The bidder must submit a point-wise compliance statement against all 26 technical specifications, indicating compliance or deviation, supported by references to the manufacturer's technical datasheet.
12. Manufacturer Authorization: In the case of an authorized dealer/distributor, a valid manufacturer authorization certificate or authorization letter identifying the offered product/brand must be submitted.
13. Warranty Undertaking: The bidder must provide a written undertaking confirming a minimum 12-month warranty and availability of technical service support and replacement pump tubing.
14. Document Verification: All submitted technical and eligibility documents shall be subject to verification by the purchaser. Any material misrepresentation, forged documentation or failure to establish compliance with mandatory requirements may result in rejection of the bid, in accordance with applicable procurement rules.