

**Foundation for Innovation and Technology Transfer
(FITT)**

Notice Inviting Quotation

Details of the item	AKTA avant 25 & Accessories
Reference No.	FT/2025/11/12
NIQ start date	27-04-2026
NIQ closing date	09-05-2026

Technical Specifications for AKTA avant 25 & Accessories

S.NO.	SPECIFICATIONS
1	The system is a state-of-the-art liquid chromatography protein purification system with ability to support Affinity, Ion-Exchange, Size-Exclusion & Hydrophobic Interaction Chromatography.
2	The system has an operating flow rate of 20 mL/min or more.
3	The flowrate does not deviate outside of $\pm 2\%$.
4	The system can withstand operating pressure of 20 bar or above.
5	The system has high-performance metal piston pump modules.
6	The system is supplied with a dedicated pump for sample application operating at a flow rate of 40 mL/min or more.
7	The system has a mixer module for buffer mixing.
8	The system has a gradient mixer that can create a gradient between 0-100% for high-resolution separation of biomolecules.
9	The system is supplied with 20 or more inlet lines.
10	All the 20 or more inlet lines are protected from air introduction by acoustic air sensors.
11	The system has provision of automated injection of large sample volumes using fixed or dynamic loops.
12	The system enables automated forward flow, reverse flow and column bypass capabilities.
13	The system has pressure sensors after pump, pre column and post column.
14	The system has column switching valve module that allows connection of up to 5 columns, enabling quick and easy column scouting without the need to re-plumb the system.
15	The system is having a buffer blending valve module which allows inline buffer preparation and generation of pH gradients for quick column scouting and pH scouting.
16	The system has a pH valve module which can be calibrated and operated automatically via operating software.

17	The pH sensor is calibrated using 2-point calibration.
18	The system has 10 or more outlet lines.
19	The system has intensification module for alternating twin columns for continuous loading downstream of a perfusion reactor, with one loading while the other is processing.
20	The system is supplied with a fraction collector which allows the use of 3, 5, 15, 50 mL tubes 24, 48, 96 deep-well plates and 250 mL bottles with spillage protection.
21	Fraction collector has an option to be used in signal threshold, time or volume.
22	The fraction collector is capable of storing the fractions at low temperatures between 10-20 °C.
23	The system has a temperature integrated conductivity meter, post column position.
24	The system comes with a multi-wavelength detector which enables simultaneous monitoring of 2 or more different wavelengths in the range of 200-700 nm for detection of proteins, peptides, nucleic acids, and chromophores.
25	The UV detector reads value between -3.0 to +3.0 AU or more.
26	The UV lamp does not require warmup time to start.
27	The UV lamp does not heat the protein sample.
28	The UV lamp has a total operating life of 5000 hours or more.
29	The system can turn off UV lamp to save lamp capacity, whenever needed.
30	The UV flow cell has flow cell volume of less than 5 µL.
31	The system can be monitored and controlled remotely using a touchscreen display or computer simultaneously.
32	System software has USFDA 21 CFR part 11 module.
33	The system is supplied with all accessories like tubes and connectors for smooth running of the system.
34	The system is capable and is supplied with 25 mL of salt tolerant multimodal weak cation exchanger having a rigid, high-flow agarose base matrix.
35	The system is capable and is supplied with 25 mL of strong anion exchange multimodal resin having a rigid, high-flow agarose base matrix.
36	The System should be supplied with 03 Years Warranty.

Terms & Conditions Details

Preparation of Bids: The offer/bid should be submitted in two bid systems (i.e.) Technical bid and financial bid. The technical bid should consist of all technical details along with commercial terms and conditions. Financial bid should indicate item wise price for the items mentioned in the technical bid

Opening of the tender: The bid will be opened by a committee duly constituted for this purpose. Only one representative will be allowed to participate in the tender opening. The technical bid will be opened first and it will be examined by a technical committee (as per specification and requirement). The financial offer/bid will be opened only for the offer/bid which technically meets all requirements as per the specification, and will be opened in the presence of the vendor's representatives subsequently for further evaluation. The bidders if interested may participate on the tender opening Date and Time. The bidder should produce authorization letter from their company to participate in the tender opening.

Acceptance/ Rejection of bids: The Committee reserves the right to reject any or all offers without assigning any reason.

The quote should reach the following address on or before –

Anurag S.Rathore, Ph.D.
Head & Professor,
Coordinator, DBT Center of Excellence for Biopharmaceutical Technology
Lab No:- 384, Block -II ,
Department of Chemical Engineering
Indian Institute of Technology, Delhi
Hauz Khas, New Delhi, 110016, India

Please quote prices for FOB New Delhi, inclusive of all taxes and duties.

Quote should be in Indian Rupees for agents of Indian manufacturers, or in foreign currency, for agents of foreign manufacturers, and needs to be valid for at least three months.

Attach all the technical literature and a list of similar installations done in India.

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. The principal and the vendor, both, are not allowed to quote for the same product.

Complete set of manuals for the operation of the equipment should be given.

Please specify all of your terms and conditions clearly, including delivery period.

Mode of payment for purchases in foreign currency are through irrevocable letter of credit, or through wire transfer on delivery. Only bank charges within India are payable by FITT, IIT Delhi, all bank charges outside India are the responsibility of the seller. For purchases in INR, payment is on delivery.

