

**School of Biological Sciences
Madurai Kamaraj University
Madurai 625 021**

Terms and Conditions

General Terms and conditions of quotation for the supply of item mentioned in our enquiry/Tender Notice for ANRF Project, School of Biological Sciences, Madurai Kamaraj University, Madurai 625 021 for supply of the items to this project.

1. The Quotations should reach this office on or before the date mentioned in our Enquiry/Tender Notice (**on or 28.01.2026 before by 5 p.m**)
2. **Each Firm/Supplier should submit Two-sealed quotation (Duly super scribing) one containing technical specifications of the items quoted and another for Price.** Both the Covers should be put in one sealed cover and submitted super scribing **“QUOTATION FOR FAST PROTEIN LIQUID CHROMATOGRAPHY** due on 28th January 2026.
3. It should clearly be mentioned in quotation whether he is the manufacturer or accredited dealer/agent for the manufacturer. In case of agent for overseas manufacturer, a letter of authorization from the manufacturer should be submitted. The tenderer can also enclose the rates in the letter head of manufacturer, if powers are given to do so by the manufacturer.
4. Supplier should submit proof for his capacity and financial status. List of reputed institutions where similar supplies are made should be enclosed. They should also submit latest GST certificates. Availability or otherwise of the facility for servicing/maintenance of the equipment after sales should clearly be mentioned. **A minimum period of 3 years warranty is preferable.** The conditions for the Annual Maintenance charges should also be quoted.
5. In case of foreign origin, the currency of the country, Country of the origin, convertible in the prevailing exchange rate and in Indian Rupees together with manufacturers name or brand should be mentioned (Should not be marked at current market rates). Rates should be quoted only for the required units. Specifications/description and available illustrated literature/pamphlets should also accompany the quotation. If the item/product is of foreign origin, C.I.F. Madurai value should be quoted along with the details of mode of dispatch up to Madurai. FOB price, Cost, Insurance and estimated Air freight and total C.I.F. value should be shown separately.
6. Madurai Kamaraj University an Educational Research Institution, is eligible for Exemption of Customs duty. No quotation will be admitted wherever the prices are quoted including Customs Duty.
7. Madurai Kamaraj University is also eligible for Exemption of Excise duty. No quotation will be admitted wherever the prices are quoted including Excise Duty. The amount of Excise duty should be shown separately. Sales tax if any, should be charged at the concession rate as applicable to Government Department against Form “D”
8. Definite Delivery period must be quoted. Preference will be given to the earlier delivery.

9. Delivery/Installation should be made immediately after the items are supplied/ received. The price quoted should be all inclusive of Local Taxes and installation charge, if any. Defective goods shall be replaced free or cost within fifteen days after receipt of intimation from this Centre.
10. **The tenderer has to furnish an Earnest Money Deposit for the instrument (EMD 1%).** The deposit may be remitted by crossed Bank Draft in favour of “**The Registrar, Madurai Kamaraj University**, Account no: 10143135395, State Bank of India, Madurai Kamaraj University branch, Madurai- 625021. IFSC Code: SBIN0002235. Quotation(s) without the EMD shall be rejected.
11. The Earnest Money Deposit will be returned to unsuccessful tenderer immediately after the tenders are finalized.
12. The Purchase Committee reserves the right to reject or accept any quotation for the supply of all the articles or for only one or more of the articles without assigning any reason thereof.
13. **The successful tenderer has to furnish 5% security deposit on the aggregate value of the equipment for each item** to be remitted by crossed bank draft drawn in favour of the “**The Registrar, Madurai Kamaraj University**, Account no: 10143135395, State Bank of India, Madurai Kamaraj University branch, Madurai- 625021. IFSC Code: SBIN0002235.
14. The Security Deposit shall be retained until installation is completed to the utmost satisfaction of the Technical Committee and returned to the firm/supplier without interest, against request letter from them, and after the period of warranty is over but subject to the conditions herein mentioned. No exemption is given to any firm from this clause, except to Public Sector undertakings. A warranty/guarantee period for the items supplied shall be mentioned in the quotation/tender
15. The successful bidder will, within fifteen days of the receipt of intimation of acceptance, be required to execute an agreement in the prescribed form on a non-judicial stamp paper of the value of Rs.10/- (the cost of stamp paper shall be borne by the firm/supplier.)
16. If the firm/supplier fails to execute the order(s)/confirmed within a reasonable time say 30 days from the date of receipt of order for supplier as mutually agreed to, the order will be cancelled and the security deposit forfeited to **The Registrar, Madurai Kamaraj University**, Account no: 10143135395, State Bank of India, Madurai Kamaraj University branch, Madurai- 625021. IFSC Code: SBIN0002235. They will also be liable for all damages sustained by the Department for non-supply of items/product including the liability to pay, any difference between the prices accepted by him and those ultimately paid by the Department for articles. Such damages will be assessed by the Technical Committee and Committee decision will be final.
17. The Contract for supply cannot be sublet without the permission of the Principal Investigator, ANRF Project.
18. If any of item/product supplied by the firm/supplier is found to be bad, or unsound, or unmerchantable, inferior in quality, or not in accordance with the description, or otherwise

or faulty, unfit for use or unwholesome, the price of such item/product which if already has been paid to the firm/supplier shall be refunded forthwith, if the payment has not been made, they will not be entitled to any payment whatsoever for such item/product.

19. After complete fulfillment by the successful firm/supplier of the supply and installation of the item/product ordered for to the satisfaction of the Technical/Purchase Committee, ANRF Project and after the expiry of warranty period of the equipment, the security Deposit furnished by them will be refunded against written request without any interest.
20. No part payment will be made on any ground before satisfactory completion of the above supply and fulfillment of the tender conditions.
21. Payment against imported supplies if any will be made only by irrevocable Letter of Credit only. The tenderer should note that once the L/C is opened by us generally no amendment will be entertained. In case of tenderer seeks for any amendment to the L/C, it will be done at their cost only. The supply should be made only according to the proforma and purchase order and no variation can be insisted or made at the time of supply.
22. The firm/supplier should mention the total FOB value including cost and insurance shown C&I, estimated airfreight charges be shown separately.
23. The firm/supplier should indicate the country/countries of origin clearly in their tender and should enclose the certificate of origin issued by the Chamber of Commerce of the concerned country.
24. Delivery/installation should be made immediately after the items are supplied. The price quoted should be all-inclusive and installation charges, if any were mentioned.
25. Tenderer should give an undertaking that in case the LC is opened before November, the shipment will be effected before the date mentioned in the LC and that proof of dispatch for the same *viz.* AWB, *etc.* will be produced in time.
26. All original documents relating to clearance shall be sent immediately through courier to reach us well in advance. Firm will be responsible for demurrages arising on account of belated receipt of original documents to the consignee.
27. The firm or authorized agents should assist for clearance of goods from Customs wherever necessary.
28. The firm shall submit as per 2 & 3 of the above conditions in a sealed cover super scribed as **“QUOTATION FOR FAST PROTEIN LIQUID CHROMATOGRAPHY** due on 28th January 2026 by 5 pm and addressed to the **Dr. T. Jebasingh, Principal Investigator, ANRF Project, Department of Plant Sciences, School of Biological Sciences, Madurai Kamaraj University, Madurai- 625 021.** Late quotations/tenders will not be considered under any circumstances.

Technical Specification

Fast Protein Liquid Chromatography (FPLC)

- The system should be a benchtop Fast Protein Liquid Chromatography (FPLC) system with ability to support all the following chromatography techniques: Affinity Chromatography, Ion-Exchange chromatography & Desalting Chromatography.
- The system should have an operating flow rate of 5 ml/min and should withstand operating pressure of 5 bar (or above), mixer with mixer holdup volume less than 0.5 ml, at least 2 inlet lines for buffers and one line for sample and supplies with at least 2 outlet lines.
- It should be operated at +4 °C up to Room Temperature and it should have a temperature integrated conductivity meter, post column position with range of 0-300 mS/cm.
- It should have 280 nm wavelength detector and the UV flow cell should have a flow cell volume of less than 10 µL.
- It should have an in-built touch screen display having controlling capabilities and real-time monitoring and supplied with all accessories like tubing's, connectors, and ferrules for the smooth running of the system.
- It should have the software which has an inbuilt feature to queue up various purification methods for attended purification, real time control and modification of pre-designed methods during the run to enable method optimization.
- The UV lamp in the system should not heat the protein sample and the system should be able to fractionate protein peak and collect protein fractions in tubes sizes of 1.5, 2 mL, 5 mL, 15 mL and 50 mL.
- Installation specifications must demonstrate the ability of the system. Also need to supply with complete set of His tagged protein purification column, Twin Strep tagged purification column and antibody purification column, Superdex 200 column, ion exchange column and amylose resin column.
- Warranty: Three years from the date of installation.
- The tender also includes a air conditioner with an **inverter-type split unit** with a **cooling capacity of 1 ton (≈12,000 BTU/hr)**, suitable for the specified room size and heat load. The system shall maintain a **stable temperature of 20 ± 1 °C** and **relative humidity between 40 and 55%**, controlled *via* a **digital thermostat with precise PID control** to ensure thermal stability for sensitive laboratory instruments. The indoor unit shall operate at a **noise level not exceeding 45–50 dB** and be mounted on **anti-vibration pads** to minimize mechanical disturbances. The system shall provide **clean air circulation** with a minimum **MERV-13 filtration**, with **HEPA filtration preferred** for critical analytical applications to reduce particulate contamination. The indoor unit shall be installed to ensure **uniform air distribution**, avoiding direct airflow onto FPLC instrument. **Condensate drainage** shall be properly managed through gravity drainage or a condensate pump to prevent moisture accumulation. The air conditioner shall be supplied with a **minimum three-year comprehensive warranty** and **five years warranty on the compressor**. To protect against voltage fluctuations, a **high-quality automatic voltage stabilizer** shall be provided with a capacity of **3–4 kVA**, compatible with a 1-ton inverter

AC. The stabilizer shall support an **input voltage range of 170–270 V** and deliver a regulated **output of $230 \pm 5\%$ V**, with built-in **low/high voltage cut-off, time-delay protection, surge protection**, and a **digital display** for real-time monitoring of input and output voltage.

DECLARATION BY THE TENDERER

I/We do hereby declare that I/We have read the Conditions of the quotations and I/We agree to abide by these conditions.

I/We also enclose herewith Bank Draft No. _____ Dated _____ for Rs. _____
Drawn at (Name of the Bank) _____
Towards Earnest Money/Security Deposit.

Signature of the Tenderer
(Name & Address of the Firm/Supplier
Should also be furnished in Block Letters)

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Technical Specification

Ultra Pure Water System

- The system shall be an integrated bench-top unit capable of producing ultrapure water of ASTM Type I quality directly from tap water. It should include purification steps such as reverse osmosis, deionization, ultraviolet (UV) oxidation, ultrafiltration (UF), and final polishing. The bacterial retention should be more than 99%.
- The product water shall have a resistivity ranging from 17 to 18 MΩ·cm at 25°C and a conductivity between 0.05 and 0.07 μS/cm. The total organic carbon (TOC) level should be within 1 to 10 ppb, bacterial content should be less than 0.1 CFU/mL, and endotoxin concentration should be below 0.01 EU/mL.
- The system shall have an internal storage tank of 5 to 10 liters with a hydrophobic vent filter to prevent airborne contamination. The built-in UV lamp (185/254 nm) should effectively reduce TOC, and the ultrafiltration module should remove endotoxins, nucleases, and other biological contaminants. Lifetime for the UV lamp should be up to 7 years.
- The operating pressure should be between 1 and 6 bar, with an RO permeate flow rate of 40 liters per hour and a final ultrapure water dispensing rate of 0.5 to 3 liters per minute.
- The system should be supplied complete with pretreatment, RO, polishing, and final filter cartridges, along with all necessary tubing, power cable, and installation accessories. The system must comply with ASTM D1193 Type I water standards, and be provided with a minimum three years of warranty from the date of installation and additional 5 years of AMC warranty should be provided. AMC should also cover the filters for the above mentioned periods.
- Should have RO water purifier to connect with Ultra pure water system and it should have a flow rate of 20 to 40 liters per hour and be capable of reducing total dissolved solids (TDS) by 90 to 98%. It should employ a multi-stage purification process including sediment filtration, activated carbon, reverse osmosis membrane, and UV/post-carbon filtration.
- The RO system shall include a storage tank with a capacity between 20 and 30 liters fitted with a float valve and vent filter. The body should be made of corrosion-resistant material and suitable for laboratory conditions. It shall operate on 230 V AC, 50 Hz power supply and include all required tubing, connections, and accessories.
- The tender includes a **3 kVA (≈2.4 kW) online double-conversion UPS with pure sine-wave output** and an **IGBT-based inverter**, suitable for continuous operation of sensitive laboratory and analytical equipment. The UPS shall provide a regulated **output of 230 V ±1% at 50 Hz ±0.5%**, independent of input fluctuations, and shall include **automatic static and maintenance bypass**. The UPS shall support **remote monitoring via SNMP/Modbus**, with event logging and alarm notifications, and shall incorporate comprehensive protections against **over-voltage, under-voltage, overload, short-circuit, over-temperature, and battery faults**, with an input power factor ≥ 0.99 . The UPS shall be supplied with an **integrated or external lithium-ion battery system** sized

to provide **6–8 hours backup at full load**, operating at a nominal **192 V DC**, delivering approximately **180–220 Ah usable capacity**, and equipped with an **integrated battery management system (BMS)** for cell balancing, thermal management, state-of-health monitoring, and safety interlocks. The battery system shall be housed in a **compact modular rack**, compliant with applicable electrical and fire-safety standards, with reduced footprint and maintenance compared to VRLA batteries. The supplier shall provide **battery layout details, weight and floor-loading calculations, ventilation and fire-safety provisions**, and a **commissioning report including full-load runtime testing**. The UPS shall be covered by a **minimum three-year comprehensive warranty**, with the lithium-ion battery system warranted as per manufacturer standards, and shall include **24 × 7 service support with defined SLA response times**.

- The tender includes a air conditioner with an **inverter-type split unit** with a **cooling capacity of 1 ton (≈12,000 BTU/hr)**, suitable for the specified room size and heat load. The system shall maintain a **stable temperature of 20 ± 1 °C** and **relative humidity between 40–55%**, controlled via a **digital thermostat with precise PID control** to ensure thermal stability for sensitive laboratory instruments. The indoor unit shall operate at a **noise level not exceeding 45–50 dB** and be mounted on **anti-vibration pads** to minimize mechanical disturbances. The system shall provide **clean air circulation** with a minimum **MERV-13 filtration**, with **HEPA filtration preferred** for critical analytical applications to reduce particulate contamination. The indoor unit shall be installed to ensure **uniform air distribution**. **Condensate drainage** shall be properly managed through gravity drainage or a condensate pump to prevent moisture accumulation. The air conditioner shall be supplied with a **minimum three-year comprehensive warranty** and **five years warranty on the compressor**. To protect against voltage fluctuations, a **high-quality automatic voltage stabilizer** shall be provided with a capacity of **3–4 kVA**, compatible with a 1-ton inverter AC. The stabilizer shall support an **input voltage range of 170–270 V** and deliver a regulated **output of $230 \pm 5\%$ V**, with built-in **low/high voltage cut-off, time-delay protection, surge protection**, and a **digital display** for real-time monitoring of input and output voltage.

DECLARATION BY THE TENDERER

I/We do hereby declare that I/We have read the Conditions of the quotations and I/We agree to abide by these conditions.

I/We also enclose herewith Bank Draft No. ____ Dated ____ for Rs.
____ Drawn at (Name of the Bank) _____
Towards Earnest Money/Security Deposit.

Signature of the Tenderer
(Name & Address of the Firm/Supplier
Should also be furnished in Block Letters)