TAMIL NADU DR. J. JAYALALITHAA FISHERIES UNIVERSITY

No. 1081/NADP-Kayalagam/Dr.MGR FCRI/Ponneri/TNJFU/Equipment/2019

Date: 07.01.2019

TENDER NOTICE

Sealed Tenders (two covers system – Technical and Commercial bids separately) are invited from firms of standing, who are actual manufacturers or authorised distributors of such manufacturers for the supply of High Performance Liquid Chromatograph with Tunable ultra-violet detector (TUV), Fluorescence detector (FD), online UPS and other accessories. GSTIN Registration No. should be furnished.

Tender schedule containing detailed specifications of the above equipment and terms and conditions can be had from the Dean, Dr. M.G.R. Fisheries College and Research Institute, Ponneri, Thiruvallur district – 601204, Tamilnadu, on working days from 07.01.2019 (10.00 am to 5.00 pm) on payment of Rs.100/- (Rupees One hundred only) by demand draft drawn in favour of the Dean, Dr. M.G.R. Fisheries College and Research Institute, payable at Ponneri-601204. The last date for the receipt of requisition for the supply of tender schedule will be 19.01.2019 at 5:00 pm. Money orders and postal orders will not be accepted.

The tender schedule may also be downloaded from the university website www.tnjfu.ac.in/tenders in which case, the cost of tender schedule i.e. Rs.100/- (Rupees One hundred only) in the form of Demand Draft shall be sent to the Dean, Dr. M.G.R. Fisheries College and Research Institute, Ponneri, Thiruvallur district – 601204, Tamilnadu.

The sealed covers super-scribed as "Tender for the supply of High Performance Liquid Chromatograph" should be addressed to the Dean, Dr. M.G.R. Fisheries College and Research Institute, Ponneri, Thiruvallur district – 601204, Tamilnadu, so as to reach him on or before 21.01.2019 at 3:00 pm and will be opened on 21.01.2019 at 3:30 pm in the presence of such of those tenderers of their authorised representatives as may be present.

The right of rejecting any (or) all tenders without assigning any reasons thereof is reserved by the Dean, Dr. M.G.R. Fisheries College and Research Institute, Ponneri, Thiruvallur district – 601204, Tamilnadu.

Dean,
Dr. M.G.R. Fisheries College
and Research Institute,
Ponneri – 601204.

3/1/19

TAMIL NADU DR.J.JAYALALITHAA FISHERIES UNIVERSITY

DR.M.G.R. FISHERIES COLLEGE AND RESEARCH INSTITUTE,
PONNERI, THIRUVALLUR DISTRICT – 601204, TAMILNADU

TENDER SCHEDULE

Tender for the supply and installation of **"High Performance Liquid Chromatograph"** with Tunable ultra-violet detector (TUV), Fluorescence detector (FD), online UPS and other accessories is invited.

Issued to:

The Dean,
Dr.M.G.R. FC&RI,
Ponneri,
Thiruvallur district – 601204,
Tamil Nadu.

SI.No.	No. of Unit required	Particulars of the equipment	Rate in Figures & Words	Unit in Figures & No.	Total
1.	**One**	**High Performance Liquid Chromatograph** with Tunable ultra-violet detector (TUV), Fluorescence detector (FD), online UPS and accessories			

Technical Specification:

1. An automatic and computer controlled high-performance liquid chromatography system equipped with a suitable quaternary gradient solvent delivery system with compatible auto sampler, multi-column forced air oven compartment, TUV Detector, FD Detector & data acquisition system software to perform chromatographic operations and control of different modules of HPLC is required.

2. **Solvent Delivery Unit:**
   - It should be a quaternary gradient solvent delivery system.
   - The flow rate should be set between 0.001 to 10 ml/min.
   - Flow rate accuracy should be less than ±1%.
   - Flow rate precision should be less than ±0.06% RSD.
   - The maximum pressure setting range should be 6000 psi or above.
   - The composition accuracy should be below 0.5% & composition precision below 0.1% RSD.
   - Gradient curve setting function and leak sensor should be available.

3. **Degassing Unit:**
   - Degassing unit should have 4 flow channels and membrane-type online degassing.
   - Maximum operating flow rate should be up to 10 ml/min per channel.

4. **Auto Sampler:**
   - Sample injection volume should be variable between 0.1 µl to 100 µl in 0.1 µl increments or better.
   - It must be capable of very fast injection time of <60s/sample, with higher injection speed is preferred for high throughput analysis capability.
   - The carry over should be below 0.01 % or better.
   - Injection volume accuracy must be below 1% or better and injection precision less than 0.5% RSD or better.
   - Number of samples to be processed automatically, random access up to 200 or above for different volume vial with provision of minimum 2 racks or better.
   - Temperature setting range should be from 4 to 40 °C or better.
   - It should have safety features like leak sensor and automatic rack & vial recognition.

5. **Column Oven:**
   - The temperature should be in the range of 20 °C to 90 °C or better
   - Temperature accuracy should be ± 0.8 °C.
   - Temperature control precision should be 0.5 °C or better
   - The oven compartment should accommodate three 30 cm column or six 10cm long column.
   - System should be able to track history of the columns.

6. **Detectors:**

   a. **Tunable ultra-violet detector (TUV):**
      - Light source should be Deuterium (D2) lamp
      - Bandwidth should be 8 nm or better
      - Wavelength range should be 190 nm to 600 nm or better
      - Flow cell volume should be 8 µl or better
      - Wavelength accuracy should be ±1 nm or better
      - Wavelength reproducibility should be ±0.1 nm or better
      - Drift should be 1 x 10^{-4} AU/hour or better
      - Noise level should be ±2.5 x 10^{-6} AU or better
      - Linearity should be 2.5 AU (ASTM method) or better
      - It should be capable of simultaneous monitoring of two wavelengths or better.

   b. **Fluorescence detector (FD):**
      - Wavelength range should be 200-900 nm or higher.
      - Wavelength accuracy should be +/- 3 nm or better.

- Light source should be Xenon lamp.
- Cell Volume should be standard 8 µl or better.
- Bandwidth should be 20 nm or better sensitivity.
- S/N Raman peak of water should be a minimum of 1200.
- The detector must be capable of monitoring any 2 wavelengths between 200 and 650 nm simultaneously.

7. **Column:**
   - Three C-18 columns (5 microns) with guard column for analysis of amino acids, vitamins, aflatoxins and antibiotics in food and fish based products.

8. **Software:**
   - Latest genuine and original software with license.
   - Single point control software for complete system.
   - Operation of the system should be very easy and intuitive via a state-of-the-art 32/64 bit Windows 7 based software
   - Programmable report formats with inbuilt formulas and calculations and with 3D analysis functions which comply with Good Laboratory Practice (GLP) and Regulatory Conformity.

9. **Consumables:**
   - Consumer test kit, PM kit and other essential consumables required for system operation and maintenance for up to 2 years.

10. **Other Components required:**
    - Branded 3 KVA or better, online UPS with minimum 1 hour backup on full instrument load.
    - Sample & solvent filtration kit with vacuum pump.
    - Ultrasonic Cleaner of 3 litres capacity.
    - Required amino acid standards of 21 L-amino acids should be quoted: L-alanine, L-arginine hydrochloride, L-asparagine, L-aspartic acid, L-cysteine hydrochloride, L-cystine, L-glutamic acid, L-glutamine, glycine, L-histidine hydrochloride, trans-4-hydroxy-L-proline, L-isoleucine. L-leucine, L-lysine hydrochloride, L-methionine, L-phenylalanine, L-proline, L-serine, L-threonine, L-tryptophan, L-tyrosine and L-valine.
    - Windows 7 or 10 based system with preloaded software from the manufacturer compatible with data acquisition and analysis. The system should be with following minimum specifications – Intel core i7 processor, 1 TB hard disk, 8 GB RAM and secured with antivirus.
    - Laser printer from a reputed company.
    - 1.5 ton split air conditioner from a reputed brand with minimum 3 star rating for proper temperature control of HPLC system with wall mounted stabilizer.
    - Analytical instrument qualification (DQ, IQ, OQ and PQ) documentation required.

11. Installation and Warranty:

- Minimum 2 years complete warranty on entire system including PC, printer, software, air conditioner and online UPS should be provided with services on call basis including preventive maintenance twice a year and unlimited breakdown visits.
- Vendor should provide complete installation and onsite operator training for users on the system start-up, usage, maintenance, quality control and trouble shooting must be provided.

Special conditions:

1. Price may be quoted in Indian / foreign currencies (along with its equivalent in Indian Rupees) for the main equipment and the accessories inclusive of all the prices for the delivery at our site.
2. Price and taxes should be quoted separately
3. This institution is eligible for concessional rates of GST as notified by the Government of India under notification no.: 47/2017-Integrated Tax (Rate) and 45/2017-Central Tax (Rate) dated 14.11.2017. The goods for which tenders have been invited fall under classification of GST concession and the conditions for eligibility of concession are met by the institution. The DSIR certificate to this effect will be issued by the institute to the tenderer after award of the contract. Tenderers are requested to submit their tenders after accounting for the concessional rate of GST. The applicable concessional rate of GST is 5%.
4. This Institute is registered with DSIR and is exempted from Customs and Central Excise Duty. In case, of imported goods, CDEC/DSIR certificates will be provided to the firm.
5. Accessories, UPS, compatible PC and other sources may be from own source or from third party producers.
6. Such third party manufacturers of accessories who fulfil the general conditions furnished above should also be included in the tender.
7. The manufacturer of the third party accessories should have sales and service network in Tamil Nadu.
8. Service and AMC policies of the third party accessories should be given in the technical bid of the tender.
9. Application training should be provided to our faculty and research personnel in our lab after the installation
10. Specification sheet - A detailed specification sheet highlighting all above specifications along with detailed experimental conditions must be attached.
11. User list -The details of the number of installations of similar application with similar instrument to be enclosed.
12. Other service conditions are given with separate sheet attached with the schedule.

31.1.19

Dean,
Dr.MGR. FC&RI, Ponneri

31/1/19

TAMIL NADU DR. J. JAYALALITHAA FISHERIES UNIVERSITY

TENDER FORM AND CONDITIONS

I. GENERAL :

Last date for submission of tender is **DATE** at **TIME.** The tender cover will be opened on **DATE** at **TIME**. Tenderer should state in the body of their letter whether they are

i) Manufacturer
ii) Manufacturer's authorized agents
iii) Holders in stock of the stores tendered for

II. DEVIATION FROM SPECIFICATION :

Tender for the supply and installation of **"High Performance Liquid Chromatograph"** with Tunable ultra-violet detector (TUV), Fluorescence detector (FD), online UPS and other accessories is invited.

The tenderers are requested to study the specification stated below:

Specification : as given in the schedule

Nos. required : as given in the schedule

SERVICE CONDITION:

Guarantee period and after sales service conditions to be mentioned. In case of deviation or alteration the same should be brought out boldly and prominently in the offer made.

III. Any terms or conditions not brought out in the body of the offer will not be considered.

IV. In case any condition or terms of contract applicable in the invitation of tender is not acceptable to the tendering firm they should specifically state deviation therein from the body of their tender.

V. In the body of the letter, the tenderer should specifically state that he agrees for sole arbitration by the Dean, Dr.M.G.R. Fisheries College and Research Institute, Ponneri, Thiruvallur district – 601204, Tamilnadu.

VI. PRICE

a. Prices for the main equipment and accessories may be quoted in terms of Indian / foreign currencies

b. The unit price should be for the equipment as indicated in the schedule of tender enquiry and not for any other equipment.

c. Price quoted should be for delivery at site, as specified by the Finance Officer, Tamil Nadu Dr. J. Jayalalithaa Fisheries University, Nagapattinam inclusive of charges such as packing, forwarding and installation.

d. Discount if any, should be indicated prominently.

e. Prices quoted shall be firm in all respects and for each equipment.

f. Tenders with price variation basis will not be accepted.

g. The offer should be kept valid for six months from the date of tender and supply is expected before : 30 days from the date of contract.

VII. The tenderer is solely responsible for the equipment till delivered and demonstration of equipment to be conducted.

VIII. Earnest Money Deposit and Execution of Agreement :

Each tender should be accompanied by an Earnest Money Deposit of 1% of total value of the product in the form of demand draft drawn in favour of the **Dean, Dr. M.G.R. Fisheries College and Research Institute, Ponneri** payable at Chennai failing which the tender will not be considered. Cheques and ready cash will not be accepted. If for any reason the tenderer withdraws the tender before or after being selected or before being rejected by the competent authority, the Tamil Nadu Dr. J. Jayalalithaa Fisheries University reserves the right to forfeit the deposit in part or in full. The earnest money deposited will be refunded to the unsuccessful tenderers. In the case of successful tenderers, the amount will be adjusted towards Security Deposit.

The successful tenderer (hereinafter referred to as contractor) shall also furnish a security deposit of not less than 5% of the total value of the contract within 15 days from the date of intimation of the acceptance of the tender. The Security deposit will be inclusive of the Earnest Money Deposit, already remitted.

The security deposit will be refundable only after the expiry of a period of one year from the date of handing over the stores in working conditions/completion of the work to the full satisfaction and upon the Dean, Dr. M.G.R. Fisheries College and Research Institute, Ponneri, Thiruvallur district – 601204, Tamilnadu, issuing a certificate that no amount is due from the contractor under the agreement and that the contractor executed on a non-judicial stamp paper of the value to be fixed incorporating the terms and conditions of the contract within one month from the date of intimation of the acceptance of the tender. In case of default of these conditions i.e. remitting security deposit and executing agreement within the time allowed, the Earnest Money Deposit (EMD) will be forfeited without prejudice to any other right of the University will also be entitled to make other arrangement for obtaining these items from others and recover from the university over the contract price together with in chargers, expenses and damages attending to such purchase provided the Dean, Dr. M.G.R. Fisheries College and Research Institute, Ponneri – 601204 in specific application from the contract grant extension of time in specific circumstances in the matter of payment of security deposit and execution of agreement.

IX. DELIVERY:

The supplies shall be subject to inspection and acceptance or rejection by the Dean, Dr.M.G.R. Fisheries College and Research Institute, Ponneri, Thiruvallur district – 601204, Tamilnadu or such other person as the Dean, Dr. M.G.R. Fisheries College and Research Institute, Ponneri, Thiruvallur district – 601204, Tamilnadu, shall from time to time name and appoint for the purpose, the said person to be named and appointed being herein referred to as the Inspection Officer. The supplies made by the tenderer which in the opinion of the Dean, Dr. M.G.R. Fisheries College and Research Institute, Ponneri, Thiruvallur district – 601204, Tamilnadu or the Inspecting Officer is in bad

order, unsound in quality or description or not in accordance with specifications as have been prescribed in that behalf or otherwise faulty or unfit for use, shall be rejected.

The supplies so rejected shall be removed by expenses of tenderer within 15 days after he has been given notice of the rejection. If not taken away, Dean, Dr. M.G.R. Fisheries College and Research Institute, Ponneri, Thiruvallur district – 601204, Tamilnadu may ask the goods to be removed and disposed off in the manner he may deem fit and recover from the tenderer the expenses incurred in such removal and disposal.

The substitution of supplies which have been rejected by the Dean, Dr. M.G.R. Fisheries College and Research Institute, Ponneri, Thiruvallur district – 601204, Tamilnadu or the Inspecting Officer in whole or in part under the provisions herein before contained the tenderer shall and will within the time permitted by the Dean, Dr. M.G.R. Fisheries College and Research Institute, Ponneri, Thiruvallur district – 601204, Tamilnadu or the Inspection officer after such rejection shall have been notified to him as aforesaid supply and delivery without causing any extra cost of expenditure. If not so supplied and delivered by the tenderer or substitution as aforesaid and also in case of failure by the tenderer to supply and deliver supplies demanded from him under this tender within the period prescribed for supply and delivery, the Dean, Dr. M.G.R. Fisheries College and Research Institute, Ponneri, Thiruvallur district – 601204, Tamilnadu or the inspecting Officer shall have power to purchase from others in lieu of rejected or not delivered goods and any excess expenditure or cost incurred by the University over and above the tenderer price together with all charges and expenses attending to the purchase shall be recoverable from the tenderer. Nothing herein contained shall prejudice any other right of the University in that behalf under the tender or otherwise.

X. A guarantee towards the supply of spare parts if any when required on the agreed price.

XI. The tenderer shall furnish the following guarantee: A guarantee to the effect that articles supplied shall be of the best quality and workmanship and shall be in with such quantities and such price. A guarantee for a period of one year or more from the date of handing over the equipment and systems and any defects in their proper function during the guarantee period should be rectified by the tenderer free of charge. If during the guarantee period, the supplies are found not to the description and quality offered by the University will be entitled to reject the articles and the supplier shall replace or pay the University such damages as may arise including the replacement of cost and towards delay and damages. Nothing herein continued shall prejudice any other right of the University if that behalf under the tender or otherwise.

XII. TRANSFER OF SUPPLY:

The tenderer shall not transfer or assign the supply or any part there or any interest therein directly or indirectly to any person or persons whomsoever without the written consent of the University.

XIII. If the supply order is placed on a higher tenderer as a result of inability of the tenderer then he will be liable to pay the University the difference between the supply rate and

that the lowest acceptable tender. This is in addition to and without prejudice to other rights under the terms of the tender.

XIV. INSTALLATION AND TESTING:

All deliveries of goods should be accompanied by invoice bills in triplicate to the officer at site to whom the goods are supplied.

a) The time allowed for completion of supply and delivery as prescribed including demonstration under the conditions of the tender is the essence of the tender.

b) Without prejudice to other rights under the terms of this tender or otherwise.

c) If the tenderer fails in the due performance of his/her supply within the time fixed in the supply or any extension thereof, the tenderer is liable to pay as liquidated damages up to 2% per month of the supply value of such portion of the materials as have not been delivered, installed and commissioned and having been delivered, installed and commissioned cannot in consequence of the delay be used efficiently during each month between the appointed or extended time as the case may be and the actual time or delivery installation. The tenderer is not entitled for any enhancement of the rates once accepted. It shall be lawful for the purchaser to set off any loss or expense or cost of damages sustained or incurred by the purchaser by reason of the cancellation of the tender form and out of nominees for the time being payable or due to the tenderer from the University otherwise apart from forfeiting the security deposit furnished by their tenderer.

d) All sums found due to the University under or by virtue of these presents shall be recoverable from the tenderer in any manner as the University may deem it.

XV. Any notice or communication to the tenderer shall be deemed to be sufficiently served if given or left in writing at his usual or last known place of abode.

XVI. All questions, disputes or differences arising under out of or in connection with the supply, if not concluded shall be subject to the exclusive jurisdiction of the place from which the acceptance of the tender is issued, is situated.

XVII. All the pages of the terms and conditions need to be signed and returned by the tenderer.

31/1/19

Dean,
Dr. MGR. FC&RI, Ponneri

31/1/19