



PERIYAR UNIVERSITY

SALEM- 636011, TAMIL NADU
NAAC A Grade - State University - NIRF Rank 90

Ref. No.PU/R/PL&D3/Biotech/5125-I/2018

Date: 29.07.2019

TENDER NOTIFICATION

Sealed Tenders are invited by the Registrar, Periyar University, Periyar Palkalai Nagar, Salem – 11 for the **Purchase of Gel Documentation Unit and ELISA Reader for DST “FIST Program” Project in the Department of Biotechnology** from reputed firms.

The detailed tender documents with specifications terms and conditions etc., can be downloaded from the University website **www.periyaruniversity.ac.in**. The last date for receipt of the tender in this office is **19.08.2019 at 2.00 p.m.**

TENDER SUMMARY

Tender Ref. Number	PU/R/PL&D3/Biotech/5125-I/2018 Date: 29.07.2019
Tender Document Cost (Rs.) (Downloadable One)	Rs. 3,360/- [(Demand Draft drawn in any Nationalized bank in favour of the Registrar, Periyar University, payable at Salem) [(Separate DD)]
Amount of EMD (Rs.)	1% of the quoted value [(Demand Draft drawn in any nationalized bank in favour of the Registrar, Periyar University, payable at Salem) [(Separate DD)]
Tender Cover Submission	upto 2.00 p.m. on <u>19.08.2019</u>

REGISTRAR i/c



PERIYAR UNIVERSITY

SALEM – 636011, TAMIL NADU, INDIA
NAAC A Grade - State University - NIRF Rank 90

From

The Registrar
Periyar University
Periyar Palkalai Nagar
Salem – 636 011.

To

No.PU/R/PL&D3/Biotech/5125-I/2018

Date:

NAME OF THE SUPPLY: Purchase of Gel Documentation Unit and ELISA Reader for DST “FIST Program” Project in the Department of Biotechnology

Tender Conditions

- 01) Sealed tenders will be received by the Registrar upto **2.00 p.m. on 19.08.2019** for the **“Purchase of Gel Documentation Unit and ELISA Reader for DST “FIST Program” Project in the Department of Biotechnology”** as per the specifications given in the tender schedules.
- 02) The tender shall be submitted in sealed cover superscribed as **“Tender for Purchase of Gel Documentation Unit and ELISA Reader for DST “FIST Program” Project in the Department of Biotechnology”** for use of Periyar University due on **19.08.2019 at 2.00 p.m.**
- 03) If the last day fixed for the receipt of tender happens to be a holiday tenders will be received on the next working day upto 2.00 p.m.
- 04) Each tender shall accompany with an **Tender Document Cost of Rs. 3,360/-**. The Tender Document Cost in the form of the Demand Draft drawn in any nationalized bank in favour of the **Registrar, Periyar University, payable at Salem.** (Separate DD)
- 05) Each tender shall accompany with an **EMD at 1% of the Instrument Value**. The EMD in the form of the Demand Draft drawn in any nationalized bank in favour of the **Registrar, Periyar University, payable at Salem.** Tenders without E.M.D. will be summarily rejected. E.M.D. will not carry any interest.
- 06) **Tenders received late will be returned to the tenderer unopened.**
- 07) The entries in the tender schedules shall be as for as possible without scoring and corrections and over writings and shall be legible. The unavoidable correction or scoring shall be attested by full signature of the tenderer. The tenderer should sign on each page of the tender document.
- 08) **In the tender schedule, the tenderer should quote his rate and tax for each item separately in figures and words in the corresponding column.**

- 09) If the rates quoted in the schedule differ in words and figures, the lowest quoted rate will be taken.
- 10) No revision of rates will be accepted. Rates quoted shall be firm.
- 11) The rates quoted shall be for delivery at University Campus inclusive of charges such as packing and forwarding. Discount if any should be indicated prominently. The tenderer is solely responsible till delivery in good condition.
- 12) **The tenderer should produce the materials as per the specifications given in the tender schedule.**
- 13) Tender shall be submitted only in this official form and the tenderer should sign on each page of the tenderer enclosed without any omission. Tenders with price variation will not be accepted.
- 14) The tender shall be valid for a period of One year from the date of opening. Tenderer should not withdraw his tender after the tenders are opened. In case the tender is withdrawn after opening, the E.M.D. will be forfeited.
- 15) The E.M.D. of the unsuccessful tenderers will be refunded on their request immediately after the disposal of tender by the competent authority.
- 16) **The successful tenderer shall also furnish security deposit at 2% of the value of the order. The Security Deposit will be refunded after one year from the date of supply of materials.**
- 17) In case of failure by the tenderer to supply items demanded within the period prescribed, the Registrar shall have the power to purchase from others in lieu of rejected or not delivered goods, the excess cost and expenses will be worked out and recovered from the tenderer.
- 18) Successful tenderer should execute an agreement on stamp paper to the value of ` 20/- within seven days from the date of receipt of intimation about acceptance of the tender. Failure to execute the agreement in the stipulated time will entail in forfeiture of the E.M.D.
- 19) Any dispute arising out of this contract shall be settled only on the court having jurisdiction of Salem.
- 20) The authority competent to accept the tender reserves the right to reject the tender without assigning reasons thereof.
- 21) Regarding the acceptance of supply with reference to the specifications and quality of materials supplied, the decision of the Registrar shall be final. The rejected materials should be removed within 15 days at Tenderer's cost.
- 22) This University's General rules for the supply of the materials and works will apply on this purchase also.
- 23) The goods should be supplied within 15 days of the receipt of order.
- 24) If the tenderer fails in the due performance of his supply within the time fixed, the tenderer is liable to pay as liquidated damages upto 2% per month for the supply value of such portion of the materials as have not been delivered.

- 25) The tender schedule is not transferable and it should be used only by the tenderer to whom it is officially issued.
- 26) Percentage of payment to be withheld for the effective performance of the contract, provided that withheld amounts do not exceed ten percent of the total value of contract.
- 27) The cost must include the warranty maintenance for 5 years from the date of intallation.
- 28) Complete address of the firm including year of establishment, Phone No., Fax No., E-mail address etc., may be furnished.
- 29) The tenderers should be responsible for erection & installation of the equipment at destination site and for making it fully operational. Payment and terms and conditions if any for the same would be specified by the tenderer separately.
- 30) Canvassing in connection with tender/quotation is strictly prohibited.
- 31) List of details of works executed and list of customers shall be attached.
- 32) The Company TIN/GST/PAN/CST Numbers must be mentioned in your Quotation.

This tender is submitted subject to agreeing to the above conditions.

Details of Tender Document Cost (DD) Enclosed

S.No.	Demand Draft No. / Date & Name of the Bank	Amount

Details of EMD Enclosed

S.No.	Demand Draft No. / Date & Name of the Bank	Amount

TENDER SCHEDULE

Purchase of Gel Documentation Unit and ELISA Reader for DST “FIST Program” Project in the Department of Biotechnology

The quantities given below are approximate and are likely to be increased/reduced.

The rates should be quoted for the brand mentioned only.

The rates should be inclusive of all taxes. Taxes must be exhibited separately in the bill. If not, deduction of tax (GST) will be made at the final payment.

The Unit rates noted below are those governing payments.

The rates quoted are for delivery at the University Campus

Sl. No.	Description of the Equipment	Qty.	Rate in Rs. (Without Tax)	Amount in Rs. (With Tax)
1.	Gel Documentation Unit (Specifications enclosed as Annexure)	1 No.		
2.	ELISA Reader (Specifications enclosed as Annexure)	1 No.		

1) Technical Specifications FOR GEL DOCUMENTATION SYSTEM

Imaging System

- Highest grade fluorescence applications
- Auto-exposure feature to save time
- Motorized Zoom mode
- Large palette of applications

Camera

- Scientific grade CCD camera for quantification
 - 1.6 megapixels true native camera resolution
 - Camera Image resolution of 6 megapixels
 - 4.65 x 4.65 μm size pixels
 - 16-bit (65 536 grey levels) –USB 2.0 super-fast connection
 - Dynamic range: 4.0 OD
- Quantum efficiency 70% at 450

Transilluminator UV pure surface: 21x26cm ;

- Single wavelength 312nm, 8W
- Ethidium (Filter included)

Optics

- Motorized version (aperture and autofocus)
- Autoexposure
- 8x48 Zoom 6 times

Software

- Unlimited license Freeware 1D software.
- One touch” fully automated image acquisition program
- Image enhancement, annotation and illustration.
- **3 D image view**
 - 1D Molecular weight (MW, volume, intensity, ...)
 - Quantification
 - Colony counting
 - Distance calculation (RF, IEF, ...)

Darkroom

- Steel and stainless steel darkroom
- Epoxy-painted for chemical resistance
- Epi white light in standard
- Black body imaging grade
- 8-watt build-in roll-out transilluminator
- UV security switch

Fully computer controlled darkroom

Applications

- Fluorescence & visible
- Quantification & documentation
- Gene expression, protein expression, RNA/DNA assay, colonies
- Open to most dyes available on the market from Invitrogen, GE Life Science, Thermo Pierce, Sigma, Millipore, Promega, and many more.

2) ELISA Reader Technical Specification

Human Machine Interface : Touch Panel / Keypad

Linear Measurement Range : 0.000 to 3.000 Absorbance units (A)

Photometric Accuracy : $\pm 1\%$ or 0.003 Abs whichever is higher, from 0 – 2Abs,
 $\pm 2\%$ (2 – 3 Abs) to 1.5A

Drift : < 0.005 A/hr

Optical Measurement : 8 Channel

Filters : 8 position filter wheel

Type of Filter : High quality narrow band interference

Wave Length : 405nm, 450nm, 492nm, 630nm, with two optional
filters (Additional filters can be ordered separately)

Half Bandwidth : 3 – 9 nm

Selection : Automatic by stepper motor

Display : High contrast colour display (480*272 dots and 256 colours)

Curve Plotting : STN320x240 dots, graphical representation on printer

Plate Carrier Movement : Precisely through the stepper motor

Printer : Built in thermal printer 52 columns

Memory : At least upto 100 assay protocols and 100 test results, 96 – well plate

Analysis Mode : Absorbance (normal & differential)

Cut-off	Multi- standard
% Absorbance	Single standard
Uptake	Kinetic

RS232 SerialPort/USB : 9600 baud, 8 data, 1 stop, no parity bits/ USB

Light source : Quartz- halogen lamp 6V/1

Read-out range : 0-6Abs

Resolution : 0.001Abs

Precision(405nm) : $CV \leq 0.2\%$ (0.3-3Abs), $CV \leq 1.0\%$ (3-4Abs), $\pm 2\%$ (2-3Abs)

Measurement speed : $< 6s$, 96- well plate $< 12s$, 384 well plate

Optional incubator : Temperature range from ambient + 4°C up to 50°C

Shaking : Linear shaking with three modes: slow, medium and fast

Robotic compatibility : Yes

User interface : Internal software or PC control with SKanIT software

External printer type : HP PCL5 Communication, USB for computer connection,
USB memory stick position for data export, USB for external
printer

Mains input : 100-240V (50/60Hz)

Power consumption : Max.100W, standby 8W

Overall dimensions : ca. 210mm(H)*290mm(W)*400mm(D)

Weight : Weight 8.5kg[18.7 lbs]

Safety specifications : Fulfills the following safety regulations :

RoHS (Restrictions of Hazardous Substances), CE mark, 2002/96/EC (Waste of
Electrical and Electronic Equipment), FCC Part15, Subpart B/Class B(July 2004)