



REGIONAL AGRICULTURAL RESEARCH STATION
AMBALAVAYAL, WAYANAD - 673 593
KERALA AGRICULTURAL UNIVERSITY

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No: D.1204/2017(iv)

Dated: 22.02.2021

RE-TENDER NOTICE

Tender Number	No: D.1204/17(iv)
Tender Cost	1500/-
GST (18%)	270/-
Date and time for receipt of tender	12.03.2021 at 11.00am
Last date and time for opening of tender	12.03.2021 at 11.30 am
Designation and address of officer to whom the quotation is to be addressed	The Associate Director of Research Regional Agricultural Research Station Ambalavayal, Wayanad, Kerala, Pin 673593
Place of supply	Ambalavayal , Wayanad, Kerala ,Pin 673593
Superscription: “Supply of Elisa Reader with Software, Automated Microplate Washer and Thermal Cyler With UPS – D/1204/17(iv)”	

Sealed competitive tenders are invited for the supply and installation of following items specified under schedule IV at RARS , Ambalavayal

**Schedule IV: Supply of Elisa Reader with Software, Automated Microplate Washer and Thermal
Cycler With UPS**

Tender Cost: 1770/- (including GST)

Sl. No	Item	Specifications	Nos
1	Elisa Reader with software	<ul style="list-style-type: none"> • Wavelength range 400–750 nm • Photometric range 0.0–3.5 OD • Linearity $\leq 1.0\%$ from 0.0–2.0 OD; $\leq 2.0\%$ from 0.0–3.0 OD • Accuracy $\pm 1.0\%$ or 0.010 from 0.000–3.000 OD at 490 nm • Precision 1.0% or 0.005 OD from 0.0–2.0 OD; 1.5% from 2.0–3.0 OD • Resolution 0.001 OD • Filter wheel capacity 8 • Plate shaking 3 speeds: low, mid, high; duration: 0–999 sec • Read time 6 sec at single wavelength, 10 sec at dual wavelengths • Data output Onboard graphical thermal printer and USB2 interface with PC or Mac data stations • Data storage Calendar/clock function; 64 assay protocols • Flexible configurations with ability to read flat-, U-, or V-bottom microplates or 8- or 12-well strip plates • Automatic calibration before each reading • Variable-speed plate-shaking capability • Easy-access 8-position filter wheel with 6 standard filters [415, 450,490,595,655 and 750 nm] • Should have integrated Thermal Printer • USB2 port for external computer control with software and suitable PC • Data and protocol presentation on LCD display • Onboard data storage of protocols, standard curves, and graphs • Self-diagnostic capabilities to detect lamp burnout at startup • Motorized door for plate loading 	1

2	Automated Microplate Washer	<ul style="list-style-type: none"> • Residual Cell Volume : < 2µl per well • Soak Time : 0-9.9 sec in strip mode • 0-59 min in plate mode • Available Manifolds : 8 and 12 Way • Storage Capacity : 75 kits • Compatible Plate Types : Any flat-,U- or V-bottom 96-well plate • Operating Temperature : 15-30°C • Volume Range : 50-3000 µl • Wash Buffer capacity : 2L • Rinse Buffer capacity : 2L • Waste Bottle : 2L • Precision : +/- 5% CV • Method : 6 single-cycle washing methods • Repetition [Wash Cycle] : 1 – 9 Times <p>Automated Programmability of needle positions to an accuracy of 0.1 0.1 mm of bottom washing, crosswise aspiration and overflow washing. Dispenser speed control Plate Shaking Option Waste Bottle Sensor Upto 75 Programmable Washing sequences Removable and autoclavable plate carrier Standard aerosol protection cover Integrated Vacuum and dispensing pumps LCD Screen</p> <p>Should have service support based in Kerala from manufacturer for the quoted model, support document to be submitted</p>	1
3	96 Well Gradient Thermal Cycler With UPS	<ul style="list-style-type: none"> • Gradient Thermal Cycler with Peltier heating and cooling based system. • Block of 96 x 0.2ml capacity & should have the option to upgrade to 384well also • Should have a maximum ramp rate of 5 deg C/second and average ramp rate of 3.3 degC/sec • Should have adjustable heated lid • Should have block and calculated temperature control modes. 	1

		<ul style="list-style-type: none"> • Should have a temperature range of 0-100 deg C • Should have a temperature accuracy of ± 0.2 deg C • Should have a temperature uniformity of ± 0.4 deg C well to well within 10 seconds of arrival at 90 deg C • System should have Gradient Block with uniform ramping with a linear gradient with 8 different annealing temperatures with a programmable range of 1-24 Degree Celsius, • Should have a gradient range of 30-100 deg C • Should have a semi-graphical, text based display and have USB ports • Should have a memory of >1000 programs with further expansion through a USB Flash drive for transfer of files. • Should have option for graphical or text based programming • Should have PCR License for Research. • Should have service support based in Kerala from manufacturer for the quoted model, support document to be submitted. • Should have CE Certification. 	
		<ul style="list-style-type: none"> • Should come with suitable UPS for power back up 	1

Terms and conditions

1. Tender form

The tender form may be downloaded from the following link in the internet www.kau.in/tenders

2. **Cost of tender form** will be accepted by way of DD in favour of Associate Director, Regional Agricultural Research Station. Ambalavayal , Pin – 673593
3. **Earnest Money Deposit:** An EMD(1% of the amount quoted) should be remitted by separate DD drawn in favour of Associate Director, Regional Agricultural Research Station. Ambalavayal Pin – 673593
4. The tender should be accompanied by a duly signed agreement in Kerala stamp paper worth Rs. 200/- (Rupees Two hundred only) in the format that can be downloaded from the website www.kau.in/tenders
5. The sealed cover containing the tender documents should be superscribed as **“Tender for Supply of Elisa Reader with software, Automated microplate washer and Thermal Cycler with UPS”** at RARS Ambalavayal”. **The cover should contain the DDs for Tender cost, EMD and the Agreement as mentioned above**
6. The successful bidder tenders should execute an agreement in Kerala Stamp paper worth Rs. 200/- (Rupees Two hundred only) and furnish a security deposit of 5% of cost of the rate quoted in the form of term deposit/bank guarantee/demand draft drawn in favour of Associate Director, Regional Agricultural Research Station. Ambalavayal Pin – 673593, Wayanad District payable at the State Bank of India, Kolagappara (IFSC: SBIN0070615), when directed from this office.
7. The rate quoted, tax and other charges if any should be separately stated.

8. The Associate Director has the right to accept or reject any or all of the offers without assigning any reason.
9. The successful bidder should conduct the work/supply of the item within 15 days from the date of receipt of work/supply order.
10. If any harthal/strike/any unexpected holiday occurs on the date of opening of tender, the tender will be opened at the same time on the next working day
11. All the rules and regulation applicable to government tender will be applicable to this tender also.

Special Conditions:

1. Tender insisting payment in advance either full or part for releasing the documents through bank are liable for rejection.
2. Leaflets/brochures containing technical features on the different models of the items quoted should be attached with the tender.
3. In the case of electrically operated equipment, the circuit diagram will have to be supplied.
4. Payment will be made after satisfactory installation and demonstration of the equipment.
5. Operation manual and guarantee cards of the equipment's wherever required should be supplied along with equipment.
6. The supplier should attach the client list for the equipment's along with their performance certificate, spare parts availability and service facilities at or nearest to the station.
7. Details of warranty offered should be clearly stated in the tender. Details of maintenance service contract offered after expiry of normal warrantee and after-sales service facilities available should be indicated.
8. Evidence of exclusive/authorised distributorship from foreign principals should be provided along with the offers for overseas products.
9. The under signed reserves the authority to accept or reject any or all of the offers for any particular item without assigning any reason whatsoever.
10. Complete deduction or reduction in number of any equipment listed, if necessary, at the time of purchase without assigning any reason will be at the discretion of the Associate Director.
11. The decision of the under signed in finalizing the tender shall be final and binding.

*Enquiries if any may be mailed to rarsamb@kau.in or contact 04936-260421.

Sd/-
Dr. K. Ajith Kumar
Associate Director of Research