KERALA AGRICULTURAL UNIVERSITY

College of Agriculture, Vellayani Thiruvananthapuram-695 522 Phone: 0471-2388002, 2381829

SP (1)/9028/2021 Dated 14.11.2022

LIMITED TENDER NOTICE

Sealed competitive tenders are invited from the firms for the supply of **Analytical Equipments** to the department of Organic Agriculture, College of Agriculture, Vellayani as per the specifications and terms & conditions detailed below.

61. [o.		Specification		Quantity	
	Flame photometer				
	Micro controller based Flame photometer with auto ignition				
	Instrument should have:				
	• Determination up-to	e aspiration.			
	• Calibration standard	-			
	• Auto Ignition and Au				
	Gas leak sensor				
	Separate login for Administrator and Guest.				
	• Results of a measurement taken earlier can be recalled and displayed (Max. Results storage: 500)				
	<u>*</u>	ıt (240×128 Dot) LCD re	adout.		
	• Online reading facilit				
	Sensitivity of calibrat				
	Elements	Minimum(ppm)	Maximum(ppm)		
	Na	0.2	100		
	K	0.1	100		
	Ca	3	300		
	• Curve fitting ecourae	y + 120/ on full goals			
	Curve fitting accuracyFilters Na, K, Ca	y . +2% on full scale			
	Sample volume : App	orov 3 ml			
			thin 20 second on single		
	Aspiration.	ive element unarysis wi	unii 20 second on single		
	•	s beaker 10 Number.	Compressor, Gas valve,		
	Instruction manual.		,,		

2	<u>Visible spectrophotometer</u>			
	Wavelength Range Wavelength Accuracy Wavelength Resolution Wavelength Display Bandwidth Photometric Range Photometric Resolution Photometric accuracy at 1	: 1 min : Digital : 5 mm : -0.3 to ± 2.5 Abs : 0.1%T Abs : ± 0.005 Abs : 4 digit LED Display	1 No.	
	Absorbance,% Transmittance and Concentration			
	Accessories 1 Pair glass cuvette, instruct			
3	Micro controller based Conductivity Meter with cells and Temp. Probe.			
	Conductivity: Range : $0.1\mu S$ to $100ms$ (6 decadic ranges) Resolution : $0.001\mu S$ Accuracy : $\pm 1\%$ of F.S. ± 1 Digit Temperature			
	Resolution : 0.1° C	: 0 ⁰ C to 100 ⁰ C (Auto/Manual) : 0. 1 ⁰ C : ± 0.2 ⁰ C ± 1 Digit		
	Cell constant Auto Temp. Compensation Display : Acceptable from 0.1 to 5.0 : 0 °C to 100 °C with PT 100 sensor : 7 Digits, 7 Segment LEDs (3 digits for TEMP/TEMPCO 4 digits for Conductivity/TDS) with Automatic decimal point selection.			
	ii) To	onductivity cell (2 nos) emperature probe (PT-100 Sensor) tand & Clamp		

4 Microcontroller based Ph meter with 3 point calibration

pH:

Range : 0 to 14 pH Resolution : 0.01pH

Stability : 0.01 pH per hour

Relative Accuracy : $\pm 0.02 \text{ pH} \pm 1 \text{ Digit}$ Slope : 85% to 115%

Standard Buffers : 7.000, 4.000, 9.183 ph

Buffer Deviation : ± 0.5 ph

mV

Range : $0 \text{ to } \pm 1999.9 \text{mV}$

Resolution : 0.1mV

Accuracy : $\pm 1 \text{mV} \pm 1 \text{ Digit}$

Temperature

Compensation : Auto/Manual Range : 0 to 99.9°C

Resolution $: 0.1^{\circ}C$ Accuracy $: \pm 0.5^{\circ}C \pm 1$ Digit

Display : 7 segment 7 digit led

Cost of tender forms

Particulars	Cost (Rs.)
Supplies costing above Rs.1,00,000/- to Rs.	0.2 % of the quoted amount rounded to the
10 lakh	nearest multiple of Rs.100/-subject to a
	minimum of Rs.400/- and maximum of
	Rs.1500/- + GST@12% (extra)
Supplies costing above Rs.10 lakh	0.15 % of the quoted amount rounded to the
	nearest multiple of Rs.100/-subject to a
	maximum of Rs.25000/- +GST12@% (extra)

2 Nos.

Last date & time of receipt of tender : 05-12-2022 1PM

Date & time of opening of tender : 05-12-2022 3PM

Terms and conditions:

- 1. The envelope containing the tender should be super scribed as "Supply of Analytical Equipments" and should be addressed to the Dean of Faculty, College of Agriculture, Vellayani, Thiruvananthapuram-695 522.
- 2. Each tender should be accompanied by Earnest Money Deposit (EMD) of 1% of the cost of the quoted items (subject to minimum of Rs.1500/-) by way of two crossed Demand Drafts separately for tender fee and EMD drawn in favour of the **Dean of Faculty**, College of Agriculture, Vellayani payable at State Bank of India, Vellayani Late and incomplete tenders and tenders without EMD, tender fee and agreement will not be accepted. Firms who are exempted from the payment of EMD should furnish a copy of the currently valid certificates from Stores Purchase Department, Govt. of Kerala.
- 3. The tender should be accompanied by an agreement in Kerala Stamp Paper worth Rs.200/- and format can be downloaded from the above website. Withdrawal of tender after its acceptance or failure to supply the items or not according to the specifications will entail cancellation of the tender.
- 4. The successful tenderer should execute an agreement in Kerala stamp paper worth Rs.200/- and furnish a Security Deposit of 5% of the cost of items quoted in the form of Term Deposit /Bank Guarantee/Demand Draft drawn in favour of the Dean of Faculty, College of Agriculture, Vellayani payable at the State Bank of India, Vellayani when directed from this office. The format of the agreement can be downloaded from the above website.
- **5.** The number of items to be purchased may vary subject to the availability of fund.
- 6. The item should be delivered at the site and the rate quoted for the item should be inclusive of all charges, taxes, loading and unloading charges, if any, and should be valid for one-year w.e.f. the date of issue of supply order.
- 7. Tenders will be opened in the presence of the tenderers who may be present at that time.
- 8. If the date of opening the tender happens to be a holiday due to unexpected circumstances like bandh, hartal etc., quotations will be opened on the next working day at the same place and time.
- 9. The Dean of Faculty, College of Agriculture, Vellayani has the right to accept or reject any or all of the offers without assigning any reason. The decision of the undersigned in finalizing the tenders will be the final and binding.
- 10. The supply order will be placed immediately on the confirmation of the tender and availability of funds.
- 11. The period of warranty for the items should be stated separately.
- 12. Tenders insisting payment in advance either full or part are liable for rejection.
- 13. On acceptance, the supply order will be placed and invoice should be addressed to the Dean of Faculty, College of Agriculture, Vellayani after the construction of structure.

- 14. The items should be supplied within 15 days from the date of receipt of supply order and no extension of date is allowed for supply.
- 15. Payment as per the invoice will be made only after supply of the items as per specifications and tenderer is liable to rectify/replace the defective articles/work immediately on receipt of intimation. TDS on GST @ 2% will be deducted on payment made to the supplier, where the total value of supply under individual contract in excess of 2.5 lakhs.
- 16. The EMD/Security Deposits furnished will be forfeited in case the contract is not fulfilled as per the terms and conditions mentioned in the tender notice and agreement.
- 17. All the rules and regulations applicable to Government tenders will be applicable to this tender also.

Sd/-DEAN OF FACULTY