

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

SP (1)/540/2022(D)

Dated, 26.02.2022

TENDERNOTICE

Sealed competitive tenders are invited from the firms for the supply of **Automatic Nitrogen Estimation System** to the Department of Community Science College of Agriculture, Vellayani in connection with the strengthening of PG as per the specifications and terms & conditions detailed below.

Sl. No.	Specification	Quantity
1	<p><u>1. Automatic Nitrogen Estimation System</u></p> <p><u>A. Automatic Macro Block Digestion System</u> Microprocessor Based Automatic (Four Place Macro Block Digestion System (Suitable for plants, soils, water, food & feed, Fertilizers & pesticides samples)</p> <ul style="list-style-type: none"> • Four Place 250 ml capacity Block Digestion System. • Aluminum Block with Casted Aluminum Alloy Heaters • Temperature Controller should be isolated separately in a control tower to protect electronics from digestion heat zone and acid reaction zone • Temperature Control Range: Room temperature to 450 ° C, Temperature Accuracy : ± 0.5 ° C • Digital display, Integrated auto sequencing time/temperature domain of 2 programs and 8 sequencing steps, • Auto over temperature protection, Auto Sensor break protection, Auto Error Indication. • All essential accessories like Digestion Tubes, SS Insert Rack, Exhaust Manifold, Suction assembly for safe removal of acid fumes. • Suction Assembly wall mounted on rear side of unit for safe & easy access to drain area <p><u>B. Automatic Distillation System</u> Auto sequencing Microprocessor based Basic PC Compatible Distillation System with in-built software with Programmable steps and 30 Pre-definable User Storage Auto Sequence Programmes.</p> <ul style="list-style-type: none"> • Auto sequencing Microprocessor based PC Compatible Distillation System with in-built software with 30 predefinable user storage programs, • Automatic sequencing with auto Intelligent run of programmable 	1 No

	<p>steps, Automatic Dilution, Automatic Alkali Addition, Automatic Steam Processing, Process over indication with alarm with delay time feature,</p> <ul style="list-style-type: none"> • Two line alpha numeric digital LCD display, RS 232 interface for connectivity to PC. • Tube insert error indication, Auto door open warning indication, Auto deactivation of System on error diagnosis, Adjustable steam power, Auto online water saving mechanism • Stainless steel non corrosive steam Generator, Fully Automatic water level monitoring with centrifugal refilling pump & Peristaltic pump for reagents addition • Reagents tanks to be wall mounted for easy handling and users visibility • The control panel unit along with inbuilt temperature controller, timer, mother board and SMPS should be isolated in separate control tower and housing to protect electronics from wet chemistry & acid/alkali process area for longevity and safely of all electronic components. • Equipment should have transparent view window to watch the distillation process & splash head • Nitrogen level : 0.1 to 200 mg Nitrogen (Min /Max Detection Limit) • Nitrogen Reproducibility: \pm 0.1% RSD, Nitrogen Recovery : > 99.5% • Electrical Requirement: 220-230V single phase 50 Hz A.C 	
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Cost of tender forms

Particulars	Cost (Rs.)
Supplies costing above Rs.1,00,000/- to Rs. 10 lakh	0.2 % of the quoted amount rounded to the 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)

Last date & time of receipt of tender : 10.03.2022 2.00 PM

Date & time of opening of tender : 10.03. 2022 3.30 PM

Terms and conditions:

1. The tender should be submitted in the prescribed form which can be downloaded from the website:www.kau.in/tenders or coavellayani.kau.in

2. The envelope containing the tender should be superscribed as “**Automatic Nitrogen Estimation System**” and should be addressed to the **Dean of Faculty**, College of Agriculture, Vellayani, Thiruvananthapuram-695 522.
3. Each tender should be accompanied by Tender fee and 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.
4. 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.
5. 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.
6. The number of items to be purchased may vary subject to the availability of fund
7. 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.
8. Tenders will be opened in the presence of the tenderers who may be present at that time.
9. 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.
10. 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.
11. The supply order will be placed subject to the approval of the committee concerned and availability of funds.
12. The period of warranty for the items should be stated separately.
13. Tenders insisting payment in advance either full or part are liable for rejection.
14. 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.

15. The items should be supplied within 10 days from the date of receipt of supply order.
16. 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.
17. 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.
18. All the rules and regulations applicable to Government tenders will be applicable to this tender also.

Sd/-
DEAN OF FACULTY