



# KERALA AGRICULTURAL UNIVERSITY

College of Climate Change and Environmental Science,

Vellanikkara, Thrissur Dist. Pin:680656

Phone: Dean: 0487-2438691 , Office: 0487-2438692 ,E-mail:ccces@kau.in

No.CCCES/1242/2024-A2 (6)

Dtd.25.02.2025.

## TENDER NOTICE

Sealed tenders are invited from competent firms for the supply and installation of "**Lab equipment's** " at College of Climate Change and Environmental Science with specifications as detailed below. The tender will be accepted up to 2 PM on 07.03.2025. The tenders received after the stipulated time will not be considered at any circumstances. The received tenders will be opened at 2.30 PM on the same day.

1	<b>Automatic Nitrogen/Protein Estimation System</b>	<b>Quantity</b>
	<p>A. Automatic Macro Block Digestion System</p> <ul style="list-style-type: none"><li>• Six Place 250 ml capacity PC Compatible Block Digestion System with all essential accessories</li><li>• TFT Graphic Touch Screen Display with unique wireless mouse to operate at a distance of 1-2 mtrs without connecting to PC.</li><li>• Should have 3 Ports in the motherboard one for PC connectivity 2nd port for direct connection to wireless Remote Mouse&amp; 3rd port to connect external wireless keyboard</li><li>• Integrated autosequencing time/temperature domain of 100 programs and 12 sequencing steps</li><li>• Live Graph representation with Time temp curve in touch screen display</li><li>• Temperature Controller should be isolated separately in a control tower to protect electronics from digestion heat zone and acid reaction zone, with separate access door for electronics control tower unit.</li><li>• Inbuilt add-on safety standby PID Controller for Heater &amp; block protection apart from main microprocessor controller.</li><li>• Inbuilt Machine management Software enables multi user login feature with superior admin password with multi user password for minimum 5-10 users</li><li>• Unique driver software to link Touch screen controller to Data processing system. All parameters of the touch screen can be read in the PC / Laptop</li><li>• Temperature Control Range Room Temperature to 500° C with safety cut off at 470°C (As per Kjeldhal chemistry effective digestion takes place 380°C - 420°C), Temperature Accuracy : ± 0.5 ° C</li><li>• Power failure mode : In event of power resumption, holds previous programmed setting in memory &amp; on power resumption starts from last set value.</li></ul>	1

<ul style="list-style-type: none"> <li>• Additional KEL FLOW suction assembly with giant suction water aspirator filter suction pumps (2 nos.) for safe removal of acid fumes with online tap water supply in the event of scrubber out of usage or repair.</li> <li>• All essential accessories like Digestion Tubes, SS Insert Rack, Exhaust Manifold,</li> <li>• Suction Assembly wall mounted on rear side of unit for safe removal of acid fumes &amp; easy access to drain area</li> </ul> <p>B. Scrubber System</p> <ul style="list-style-type: none"> <li>• Three stage acid neutralization scrubber.</li> <li>• Non corrosive centrifugal inbuilt magnetic suction pump for water recirculation.</li> <li>• Motor Capacity: 30 litres / hour</li> <li>• Automatic Water level indicator to view water level in FRP/SS tank externally</li> <li>• Fibre Reinforced plastic/Stainless steel Tank, Containers for Alkali and Water</li> <li>• The OEM should be reputed with atleast 100 installations in Kerala with proof of user list</li> <li>• The instrument shall strictly confirm to the specifications with relevant brochure &amp; Photograph with images.</li> <li>• The OEM should have proof of atleast 25 installations of long term users using equipments for more than a period of 10 -15 years showing longevity of operations</li> <li>• The bidders/OEM must show online demonstration of the quoted system during technical evaluation of the bids. This is an essential requirement.</li> <li>• The instrument should be approved registered brand, Certificates issued by Trade Mark Registry under Trade Marks Act 1999 (Govt. of India)</li> <li>• The OEM should have atleast Rs.5 Crore average Turnover in last three financial years</li> </ul>	
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Cost of Tender Forms: - 0.2% of the quoted amount rounded to the nearest multiple of 100, subject to a minimum of Rs.400/- and maximum of Rs. 1500 + GST 18%

Last date of receipt of tender                      07.03.2025 @ 2.00PM  
Date and time of opening tender                      07.03.2025 @ 2.30PM

Terms and Conditions: -

1. Tender should be submitted in the prescribed forms which can be downloaded from the website [www.kau.edu/tenders](http://www.kau.edu/tenders). The cost of the tender forms will not be refunded under any circumstances.
2. The sealed cover containing the tender should be superscribed supply and installation of "**Lab equipment's**" (along with the notification number) and addressed to the Dean, College of Climate Change and Environmental Science, Vellanikkara, KAU.

3. Tender should be accompanied by EMD of Rs.2000/- and Tender fee @ 0.2% +GST 18% of quoted amount by way of three crossed Demand Drafts separately (1. Tender fee 2.GST on tender fee 3.EMD) drawn in favour of The Dean, College of Climate Change and Environmental Science, Vellanikkara, KAU.
4. payable at the State Bank of India, KAU branch, Vellanikkara,. Late and incomplete tenders and tenders without EMD), tender fee and agreement will not be accepted. Firms which are exempted from payment of EMD should furnish copy of the current valid certificate from the Store Purchase Department, Government of Kerala.
5. The tender should be accompanied by an agreement in Kerala Stamp Paper worth Rs. 200/- (Rupees Two Hundred only) and format can be downloaded from the above website.
6. The successful tenderer should execute an agreement in Kerala Stamp Paper worth Rs. 200/- (Rupees Two Hundred only) and should furnish a security deposit of 5% of the cost of the items quoted in the form of demand draft term deposit/ bank guarantee/demand draft drawn in favour of the Dean, College of Climate Change and Environmental Science, Vellanikkara, KAU at State Bank of India, KAU branch, Vellanikkara. The format of the agreement can be downloaded from the above website.
7. The price must be inclusive of all taxes and transportation charges and other charges, if any.
8. The cost of the item, tax and other charges should be stated separately
9. The exact specification, details of make, model, name of manufacturer, warranty details etc., of the item must be clearly specified.
10. If any Bandh/strike/ any unexpected holydays occur on the date of opening of tender, the tender will be opened at the same time on the next working day. The decision of the undersigned in accepting the tenders shall be final and binding.
11. Withdrawal of tenders after its acceptance of failure to supply the equipment or not according to the specification will entail cancellation of the tender.
12. The supply order will be issued on the acceptance of the tender and the invoice should be addressed to the Dean, College of Climate Change and Environmental Science, Vellanikkara. The payment will be effected only after satisfactory supply of the item.
13. The successful tenderer should supply and install the item to College of Climate Change and Environmental Science, Vellanikkara, KAU.within one week from the date of the receipt of the supply order.
14. The Dean, College of Climate Change and Environmental Science, Vellanikkara, reserves the right to remove the name of the defaulted suppliers from the list of suppliers permanently or for a specific period.
15. The Dean, College of Climate Change and Environmental Science, Vellanikkara, has the right to accept or reject any or all of the offers without assigning any reason.

16. All the rules and regulations applicable to Government quotations will be applicable to this also

Signed by

To,

1. Website

2. Notice board

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