



KERALA AGRICULTURAL UNIVERSITY
Department of Soil Science and Agricultural Chemistry
College of Agriculture, Vellanikkara, Thrissur – 680 656.

Email: ssagchem@cohvka.kau.in

No.SSAC/COA/VKA/21-22

dated 11/03/2022

Tender Notice

Tenders are invited for the supply of **Automatic Nitrogen Estimation System** as per the technical specifications and terms and conditions attached. General information about the tenderer is to be furnished as in Annexure I. Preliminary agreement shall be executed in the format given in Annexure II, technical specifications in annexure III, and users list as given in Annexure IV. As per DSIR registration, necessary exemption can be availed for customs & excise duties for the purchase. The University is eligible for relaxation in GST as per Notification No.45/2017 Central Tax (Rate) dated 14.11.17 & Notification No.47/2017 Integrated Tax (Rate) dated 14.11.17. Our GST Regn. No. is: 32AAAJR0762J5Z3

Tender Details		
1	Name of the item	Automatic Nitrogen Estimation System
2	Tender inviting Authority	Professor & Head, Dept of Soil Science and Agricultural Chemistry, College of Agriculture, Vellanikkara
3	Location of supply	Department of Sol Science and Agricultural Chemistry, College of Agriculture, Kerala Agricultural University, Vellanikkara, Thrissur District, Kerala
4	Date and Time of Publication of Tender	11/03/2022
5	Last Date and Time of Receipt of Tenders	18/03/2022 at 12 pm
6	Date and Time of Opening of Technical Bid	18/03/2022 at 3 pm
7	Earnest money deposit (EMD)	1% rounded to the nearest rupees of the total cost of the articles /quoted amount subject to a minimum of Rs. 1,500.00
8	Tender submission fee	Above 1.0 lakh to 10.00 lakhs - 0.20% of the cost of tender rounded to the nearest multiple of hundred subject to a minimum of Rs. 400.00 and maximum of Rs. 1,500.00 + 12% GST as applicable

9	Submission of performance security	3 days from issue of purchase order
10	Period of supply	Within 3 days from date of purchase order

Instructions to the bidders

- a. **Payment of tender fee and EMD** – As mentioned in serial no. 7 and 8 in the tender notice
- b. All items must be quoted and must comply with the respective Specifications
- c. Specification claimed must be supported by printed company datasheets and brochures (original).

For any further clarifications please e mail to ssagchem@cohvka.kau.in

Sd/-

Professor & Head



Tender No. SSAC/COA/VKA/21-22

KERALA AGRICULTURAL UNIVERSITY

Department of Soil Science and Agricultural Chemistry

College of Agriculture, Vellanikkara, Thrissur District, Kerala, India, PIN-680 656

E-mail: ssagchem@cohvka.kau.in

Tender containing general conditions of the contract and schedule for the supply of
Automatic Nitrogen Estimation System

Name of tenderer:

Address:

TENDER OFFER FORM

Sir,

Having examined and accepting the conditions of the tender No.-----
relating to the supply of insect boxes

I/We hereby tender to supply, under the annexed general and specific conditions of contract, the whole of the articles referred to, described in the attached detailed technical specification and schedule, or any portion thereof as may be decided by the Kerala Agricultural University, at the rate quoted against each item. The articles will be delivered within the time and at the places specified in the schedule or in default thereof to forfeit and pay to Kerala Agricultural University the amount mentioned in said conditions.

I/We, remitted the required amount of Rs. as Tender fee and Rs. -----
-as earnest money.; should I/We fail to supply and install the equipment when called upon to do so, I/We do here by agree that this sum shall be forfeited by me/us to Kerala Agricultural University.

Tender schedule

Location of supply	Department of Soil Science and Agricultural Chemistry, College of Agriculture, Kerala Agricultural University, Vellanikkara, Thrissur District, Kerala
Period of firmness of the tender offer	14 days
Submission of performance security	3 days from issue of purchase order
Period of supply	Within 3 days from date of purchase order

Undertaking that the Bidder is not Debarred/ Blacklisted or Banned from Any University/ Government Institute / PSU is attached

Valid dealership certificate, EMD/tender fee Exemption Certificate & other certificates (Enlistment with DGSD, Up to date GST registration certificate, PAN) for tender acceptance are attached.

Preliminary Agreement in stamp paper of Rs.200/-, Warranty and Terms and Conditions of Contract and user list are attached.

Five latest Purchase Order copy for Supply of Automatic Nitrogen Estimation System in South India, Technical Brochure of the Quoted Models of equipment signed by the principals/head of stations are also attached.

GENERAL CONDITIONS

If any tenderer withdraws from his tender before the expiry of the period fixed for keeping the rates firm for acceptance, the earnest money, if any deposited by him will be forfeited to Kerala Agricultural University or such action taken against him as the University think fit.

Tenders should be prepared to accept orders subject to the penalty clause for forfeiture of security in the event of default in supplies or failure to supply within the stipulated period.

Kerala Agricultural University reserves the right to accept whole or any part of any tender or portion of the quantity offered or reject it in full without assigning any reason.

Any legal disputes arising out of any breach of contract pertaining to this tender shall be settled in the court of competent jurisdiction located within the state of Kerala.

In addition to these, all other General Conditions annexed in the Store Purchase Manual of Government of Kerala are also applicable to this tender

The tender will invariably furnish the following certificates with their bills for payment.

“Certified that the goods on which sales tax has been charged have not been exempted under the Central Sales Tax Act or the State Sales Tax on these goods are correct under the provisions of the relevant act or the rules made there under. Certified further that we (or our Branch or Agent)..... (Address) are registered as dealers in the State of under Registration No. for the purpose of Sales tax”.

Signature and address of Witnesses:

- 1.
- 2

Yours faithfully,

Tenderer certifies that the above information is true and in case it is found not be true at a later date the owner shall have the right to terminate the contract.

Signature of the Supplier/authorized agent

DESIGNATION

COMPANY

Address).....

.....

SEAL OF COMPANY

Date :.....

Note: Editing of the text in the tender form in any way other than as indicated (like filling in, scoring off inapplicable material etc.) will render form invalid and liable for rejection.

ANNEXURE I

GENERAL INFORMATION ABOUT THE TENDERER

1	Tender reference No.	
2	Date of submission of tender offer	
3	Details of EMD submitted (if any)	
4	Tender submitted by	
	Name of the Tenderer	
	Registered address of the firm with GSTIN	
	Telephone No	
	Email	
5	Name of Principal Supplier (if not self)	
6	Authorization by the Principal supplier (Attach details)	
7	Authorized contact person	
	Designation	
	Telephone No	
	Mobile No.	
8	Communication Address	
	Telephone No	
	Email	
	Registration No. & Date of Registration	
9	Nature of Business	
	OEM, Authorized dealer, Direct importer	
10	Key personnel Details (Chairman, CEO, Directors, Managing Partners etc.)	
	Name	
	Designation	
	Communication address	
	Telephone No	
	Email	
11	Bank Details	
	Bank Account No.	
	Bank Name & Address	
	Branch Name & IFSC Code	
	Telephone No & Email ID	
12	List of supporting documents submitted along with the tender	
	Any other relevant information	

Date

Office seal

Signature of the bidder / Authorised signatory

ANNEXURE II

(Send duly filled & signed hard copy of the agreement in Kerala Stamp Paper worth Rs. 200/- purchased in the name of the Contractor to the tender inviting authority)

A G R E E M E N T

Articles of agreement executed on this the ____ day of _____, two thousand and ____ between _____ (here enter the name and address of the purchasing officer) for and on behalf of the Vice-Chancellor, Kerala Agricultural University, (hereinafter referred to as "The University") of the one part and Sri. _____ (H.E. name and address of the tenderer) (hereinafter referred to as "the Bounden") of the other part.

WHEREAS in response to the notification no. _____ dated _____, the Bounden has submitted to the University a tender for the supply of _____ specified therein subject to the terms and conditions contained in the said tender.

WHEREAS the Bounden has also deposited with the University a sum of Rs. _____ only as earnest money for the execution of an agreement undertaking the due fulfilment of the contract, in case his tender is accepted by the University.

NOW THESE PRESENTS WITNESS and it is hereby mutually agreed as follows:

1. In case the tender submitted by the Bounden is accepted by the University and the contract for the supply of any item of _____ as per the above notification is awarded to the Bounden, the Bounden shall within fifteen days of acceptance of his tender, execute an agreement with the University incorporating all the terms and conditions under which the University accepts his tender.

2. In case the Bounden fails to execute the agreement as aforesaid incorporating the terms and conditions governing the contract, the University shall have power and authority to recover from the Bounden any loss or damage caused to the University by such breach as may be determined by the University, by appropriating the earnest money deposited by the Bounden and if the earnest money is found to be inadequate, the deficit amount may be recovered from the Bounden and his properties movable and immovable in the manner hereinafter contained.

3. All sums found due to the University under or by virtue of this agreement shall be recoverable from the Bounden and his properties movable and immovable under the provisions of the Revenue Recovery Act for the time being in force as though such sums are arrears of land revenue and in such other manner as the University may deem fit.

In witness whereof the _____ (here enter the name and address of the purchasing officer), for and on behalf of the Vice-Chancellor of Kerala Agricultural University and Shri. _____, the Bounden, have here unto set their hands the day and year shown against their respective signatures.

Signed by Shri. _____ (date) _____

In the presence of witnesses:

1.

2.

Signed by Shri. _____ (date) _____

In the presence of witness:

1.

2.

Annexure III

TECHNICAL SPECIFICATIONS

Automatic Nitrogen Estimation System

I. Automatic Digestion System

- Twelve Place 250 ml capacity PC Compatible Block Digestion System with all essential accessories
- Should have 2 Ports in the motherboard, one for PC connectivity another for direct connection to Remote Mouse/Datalogger etc.
- Touch Screen display should have provision for USB memory copy, Graph options, real time date & clock, actual logging of process Data.
- Integrated auto sequencing time/temperature domain of >30 programs and >10 sequencing steps
- 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: ± 1.0 ° C
- PC software performs Live graphical representation of time /temperature gradient on touch screen display
- All essential accessories like Digestion Tubes, SS Insert Rack, Exhaust Manifold
- Suction Assembly wall mounted on rear side of unit for safe removal of acid fumes & easy access to drain area.

II. Four stage acid neutralization scrubber.

- First stage: Condensation with water condenser,
- Second Stage: Neutralization in Alkali,
- Third Stage: Neutralization in Water,
- Fourth Stage: Dissolution of air free of acid fumes in raw tank water.
- Recirculation Pump: Non corrosive centrifugal inbuilt magnetic suction pump for water recirculation in 6/8 L tank avoiding requirement of running water during digestion.
- Automatic Water level indicator to view water level in FRP tank externally

III. Automatic Distillation System

- Auto sequencing Programmable Microprocessor based Dual Distillation with inbuilt software,
- Colour Touch Screen Display, No. of Samples: Two at a time,
- Should have single large Touch screen panel with split screen of 2 columns of Distillation.
- Both units should run parallelly with single power socket.
- Independent stainless steel non corrosive steam generator. Expansion vessel and water condenser,
- Auto Intelligent run of programmable steps, Addition of Boric Acid, Dilution, KMNO₄ Addition for Available Nitrogen, Alkali Addition, Steam Processing, Process over indication with alarm with inbuilt delay time features, inbuilt formula for Nitrogen, Available Nitrogen, Ammoniacal Nitrogen, by direct & back titration method etc. without connecting to PC. All parameters viewable in the screen with test methods. Complete Automatic safety features.
- Auto reagent Level Sensor with Alarm for Reagents, Stainless steel non corrosive steam Generator
- 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 for longevity and safety of all electronic components.
- Equipment should have transparent view window to watch the distillation process and splash head.
- Nitrogen level: 0.1 to 200 mg Nitrogen (Min / Max Detection Limit)
- Nitrogen Reproducibility: $\pm 0.1\%$ RSD, Nitrogen Recovery: > 99.5%
- Power requirement: 220-230V single phase 50Hz A.C

IV. Refrigerated Water Cooling Circulating system

- Refrigerated Water Cooling Circulating system with digital display of temperature with SS tank,
- Microprocessor based PID Temp. Controller, Temperature Range: 10°C to 20°C.
- The company should be reputed with at least 100 users in Kerala with good track record of After Sales Service.
- The company should have proof of at least 40-50 installations of Dual distillation system in India.
- The instrument shall strictly conform to the specifications with relevant brochure.
- The company should have proof of at least 25 installations of long-term users using equipment for more than a period of 10 -15 years showing longevity of operations

Warranty – 2 years

Suppliers shall be entirely responsible for **packing, forwarding, freight, insurance charges**, all duties, taxes, license fees, octroi, road permits, insurance, clearing charges, etc., incurred until delivery of the Goods to the Purchaser. Nothing extra will be paid in addition to quoted rates.

As per the notification no. 45/2017-Central Tax (Rate), Govt. of India, dated 14th November, 2017, procurement of Indigenous items such as scientific and technical instruments, apparatus, equipment (including computers), accessories, parts and consumables by research institutes/ Universities, GST applicable should be 5%. DSIR and Essentiality certificate and other documents will be produced by KAU, for the needed items.

Declaration by the tenderer

It is hereby declared that the details given above are correct as pertaining to the quoted model. The formal financial bid is enclosed including all relevant details.

SIGNATURE OF TENDERER

SEAL OF THE COMPANY

DATE

