

Government of Kerala Directorate of Dairy Development Department Pattom, Thiruvananthapuram

Notice Inviting Tender

Ref : File No: DDDKER/3287/2024-F1 Dated13-11-2024

e-Tenders (online bids only) are invited through Kerala Government official e-Procurement portal https://etenders.kerala.gov.in for the **Supply of Automatic Protein analyzer** as per the details and terms and conditions given below.

Sl No.	Description	
1.	Mode of Tender submiss ion	Online though e-Procurement portal a t https://etenders.kerala.gov.in
2.	Tender inviting Authority	Director, Dairy Development Department
3.	Date & Time of Publicati on of Tender	15/11/2024
4	Last date with time for receipt of Tender	30/11/ 24 .5pm
5	Date of opening of Tend ers	2/12/24

TENDER DETAILS

6	Estimate Amount	<mark>18,00,000</mark>	
7	Earnest Money Deposit (EMD)	Rs.18000/- 1% (rounded to the neare st rupees) of the total cos t, subject to a minimum o f ` 1,500	Online Remittanc e only through
8	Tender Fee	0.15% OF COST. ROUND	https://etenders. kerala.gov.in
9	Contact Person of Depar tment of Dairy Developm ent for inquiry of technic al details	Assistant Director .State dairy laboratory	
10	Name & address where queries/correspondence concerning this tender i s to be sent	Department of Dairy Development, Pattom Palace P O, P attom, Thiruvanantha puram. 695004 e-mail: cru.ddd@ke rala.gov.in/ state dairylaborato ry@gmail.com Website: www.dair ydevelopment.keral a.gov.in	

TECHNICAL SPECIFICATION

Tender : State Dairy laboratory ,		
Dairy Development Department		
Supply of Automatic Protein analyzer (1no)		
Detailed specifications		
Automatic Protein Analyzer		

SpecificationRequirementDigestion, scrubber and Distillation unitShould be combined unit with all units from the same manufacturer and consist of Digestion unit, Distillation unit, Scrubber and Accessories• Aluminium block heating • Tube holding capacity: 20 No 250ml tubes • Temperature: ambient to 450°C • Temperature Stability: ± 0.5 °C % • Digestion Time range: 1 - 999 minutes or more • Graphic display or better Control system • Should have programmable time & temperature ramping and audible alarms • Atleast 25 pre programs for milk,milk products,animal feed, food products • Atleast 20 user programs with temperature ramp. Ramping of at least 4 ramps per program • Should be provided with automatic motorized lifting of tubes from the heating unit • End of run with audible signal • Data transfer via USB • Material of construction SS with chemical resistant coating. • Maximum power consumption 2700 watts for 20 tubes • Confirmity with AOAC, DIN and ISO standards(proof to be attached)		
Digestion, scrubber and Distillation unitmanufacturer and consist of Digestion unit, Distillation unit, Scrubber and Accessories• Aluminium block heating • Tube holding capacity: 20 No 250ml tubes • Temperature: ambient to 450°C • Temperature Stability: ± 0.5 °C % • Digestion Time range: 1 - 999 minutes or more • Graphic display or better Control system • Should have programmable time & temperature ramping and audible alarms • Atleast 25 pre programs for milk,milk products,animal feed, food products • Atleast 20 user programs with temperature ramp. Ramping of at least 4 ramps per programDigester• Should be provided with automatic motorized lifting of tubes from the heating unit • End of run with audible signal • Data transfer via USB • Material of construction SS with chemical resistant coating. • Maximum power consumption 2700 watts for 20 tubes • Confirmity with AOAC, DIN and ISO	Specification	Requirement
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Accessories for digester	 Exhaust unit, sample -Rack 2no, stand 2no, suction cap with drip tray -1, water and reagent tanks with cap -3, residue collection tank with cap -1, complete glass bottle set -1 set, complete cables and tubings -1 set, major/full PM for digestor, distillator, scrubber -1 set each., 40 nos. of digestion tubes ≥ 250 ml. and all other required accessories for standalone operation of the equipment
Scrubber system	 The material of construction of the scrubber should be of high endurance materials like borosilicate glass or high-quality stainless steel or high quality techno polymer or polypropylene Auto Start from Digestion system Cleaning shall include condensation, neutralization, adsorption and redox reactions to maintain efficiency of the equipment Suction should be regulated/ adjustable to achieve efficient digestion. All supplied reagent containers must be ≥ 2 L. capacities. power consumption 210 watts max
	 Distillation system Should be completely programmable and automatic addition for all controls like cooling water, dilution water, sodium hydroxide, boric acid receiver solution, emptying of sample in tube, etc. Calibrational pump for NaOH,Boric acid,water and other reagents There should be separation between distillation tube and segregation section either by wall or door Cooling water regulation by programming

	• Predefined programmes for minimum 15 no
Automated Distillation Unit	 Should have touch screen display Minimum 7 * coloured and interactive touch screen Analysis time 3 to 5 minutes Nitrogen measurement range 0.1 - 200 mg or more Recovery: ≥ 99.5%. Detection limit 0.1 mg N RSD must be ≤ 1 %. Automatic waste removal via tube drainage after distillation Steam output regulation between 10 % to 100% Alkali resistant techno polymer or poly propylene splash head with techno polymer or poly propylene outer construction material should be of chemical resistant material. Lever system to position the test tube provision for connecting external potentiometric titrator . Drip tray to collect spillage during steam distillation Safety sensors for test tube sensor, cooling water flow rate detector Automatic and manual operation should be possible in distillation Interface and connectivity : The system should be able to store the recorded data and must have facility for downloading the same using an USB port or through Wi-Fi ,RS232 for external titrator ,connectivity for LIMS or equivalent Additionally, it should be possible for retrieving data using suitable software which is compliant to traceability. The system should be provided with suitable

Reference	 programmes and data. The system shall have the possibility to track performance of the system and warns if analysis results changes over time. It is desirable to have component traceability feature in the system for effective maintenance of the system The system shall have the possibility to track performance of the system and warns if analysis results changes over time. It is desirable to have component traceability feature in the system for effective maintenance of the system. It is desirable to have component traceability feature in the system for effective maintenance of the system. power consumption 2400 watts max Confirmity with AOAC,DIN and ISO Standards(proof is to be submitted) Official approvals: AOAC,DIN and ISO Standard
Reference standard	certified Ammonium sulfate (100g) or equivalent certified standard
Operating manuals, service manuals, other manuals	 Should provide: - User, technical and maintenance manuals in English language List of equipment and procedures required for local calibration and routine maintenance Service and operation manuals to be provided Advanced maintenance tasks documentation, if any.
Recommendations or Warnings Warranty	Any warning signs would be adequately displayed 3 year after satisfactory installation and working.
-	With 3 Free Preventive Maintenance per Year Under Warranty Period.
	The Warranty Includes all the Parts Except Consumables(digestion tubes)

AMC	Amc Quote for next 7 years after warranty
List of Spares and	List of all spares and accessories (including minor)
Accessories	with part numbers and price, required for
	maintenance and repairs in future after
	guarantee/warranty period should be attached
Training	The supplier will have to carry out successful
Training	Installation at the laboratory premises (where ever
	the system has to be installed) and provide on-site
	comprehensive training for a minimum of two
	1 0
	scientific personnel operating the system till
	customer satisfaction .No additional cost has to be
Oralita	charged
Quality Requirement	
Requirement	• Should be compliant with the requirements of FDA/CE/BIS
	Electrical safety conforms to the standards for electrical
	safety IEC 60601- General requirements (or equivalent BIS
	Standard)
	• Should have necessary certification for safety and quality
	standards from national /International bodies
IQ/PQ/OQ	On site IQ, OQ, PQ of instrument along with document to be
	provided & supplier to assist till satisfactory PQof instrument
After sales service/ Post	Contact details of manufacturer, supplier and local service
warranty	persons, Application specialist to be provided, including toll
,, all all y	free/ Landline Number; and mobile number
	nee/ Landinie rumber, and moone number
	Details of Service centres in India/Kerala/or Minimum 5
	service Engineers in South India with their names and mobile
	numbers
	□ Should have a good after sales service/technical support
	capable of reaching at short notice the places where instrument
	is installed. Visits and unlimited breakdown calls by
	service/application support, engineers should attend
	immediately without fail.
	□ Service and spare availability of brand for 10 years to be
	given as agreement on stamp paper
Compliance statement	The quote should also include a compliance statement site built
Compliance statement	The quote should also include a compliance statement vis-à-vis
	specifications in a "tabular form" clearly stating the compliance
	and giving justification, if any supported by technical literature.
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Outage conditions After 3 underta i. Prev minimu year to minor a ii. Brea of the e seller is equipm iii. Res exceed provide iv. Max would I service equipm v. The users fi produc from u Labs/Fi vi.Com the sup • 0 • 1 s • 2 • 2 • 2 • 2 • 2 • 2 • 2 • 2 • 2 • 2	atement must be signed, with the company seal, for its icity and acceptance that any incorrect or ambiguous ation found submitted will result in disqualification.
the sup • 0 • 7 • 7 • 7 • 7 • 6 • 7 • 6 • 7 • 7 • 7 • 7 • 7 • 7 • 7 • 7	years of warranty period, 7 years of AMC shall be ken by the supplier. This would also include: entive maintenance service: The seller will provide a um of 3 Preventive Maintenance Service visits during a the operating base to carry out functional checkups and djustments/tuning as may be required. kdown Maintenance Service: In case of any breakdown quipment/system, on receiving a call from the buyer, the to provide maintenance service to make the ent/system serviceable. ponse time: The response time of the seller should not 48 hours from the time the breakdown intimation is d by the Buyer. imum repair turnaround time for equipment/system be 3 days. However, the spares should be maintained in a able condition to avoid complete breakdown of the ent/system. Supplier /brand should be reputed with alteast 10 or automatic kjeldahl machine in India and able to e alteast 5 performance certificate of same machine sers including NABL accreditedGovernment
	pany/Brand should have an experience of 10 years in only of Automatic protein machine DEM authorization certificate is required The delivery challan shall indicate the model number & erial number of items delivered All equipment's should be from a reputed OEM of non- Chinese origin as per MHA guide lines Bidder must have minimum 10 cores for the last 3 years r above Turnover (Attach Proof) Buyer reserves the right to reject/accept the items based n the market survey The bidder should clearly mention the make and model umber in BOQ compliance
Requirements quoted Techni	bidders must show technical demonstration of the model onsite or other convenient labs at the time of cal evaluation of bids .This is an Essential ement(no additional cost will be beared by ment)
Payment Paymen	nt only after installation, validation and performance

Mandatory documents required to be uploaded

Proposed product specifications shall be included as scanned signed copies in the e portal along with Tender

- 1. Covering Letter
- 2. General Information of the company and company profile, Company Registration details ,Legal identity
- 3. Detailed component wise technical specification of Automatic Protein analyzer with specific quoted model brochures and photographs and website information
- 4. Experience pertaining to supply of Automatic Protein analyzer for at least 10years.
- 5. No. of installations of protein analyzer supplied nationwide during last 5 years with Customer reference list
- 6. No. of installations of protein analyzer supplied in Kerala state during last 5 years
- 7. No. of installations of protein analyzer supplied to Government firms / institutions last year
- 8. Copy of work orders of protein analyzer (at least 5 nos for last 2 years.
 9. OEM authorization certificate is required
- 10. Bidder must have minimum 10 cores or above Turnover for the last 3 years (Attach latest Proof)

Important Terms and Conditions:

- 1. Buyer reserves the right to reject/accept the items based on the market survey
- 2. The bidder should clearly mention the make and model number in BOQ compliance
- 3. The firm should clearly satisfy the warranty terms and the quoted items should meet all the technical specifications.(will be verified physically during technical evaluation)
- 4. Quoted price should be inclusive of all taxes ,installation, training, freight loading and unloading
- 5. The bidders must show technical demonstration of the quoted model onsite or other labs at the time of Technical evaluation of bids .This is an Essential requirement.(Companies has to arrange the demonstration by their own cost. Department will not bear any additional expenses)
- 6. Digestor, Scrubber, Distillation Unit and Accessories should be from the same manufacturer .
- 7. The instrument shall be delivered with a Verification Test document that certifies that instrument has been performance tested in factory (confirming analysis performance).
- 8. The Instrument shall strictly confirm to the specifications with relevant brochure and photograph and website information of the product
- 9. Sample will be given to the bidders during Technical evaluation and Companies either at the customer site or any other mutually convenient Lab, same sample should be analysed for 6 times for repeatability for not more than 5 % variation between test results .Repeatability and reproducibility has to be proved and will be technically verified.This is an important

requirement

- 10. The System must be compliant to ISO 17025:2017 ; Certificate from the manufacturer should be submitted
- 11. The delivery chalan shall indicate the model number & serial number of items delivered
- 12. All equipment's should be from a reputed OEM of non-Chinese origin as per MHA guide lines
- 13. Bids and Tender Documents, signed physically and/or digitally with a valid Digital Signature Certificate, are to be submitted online only in the designated covers on the official web portal of e Tenders Kerala.
- 14. Bidders who apply for Automatic Protein analyzer will only be considered for technical tender evaluation. Others will be rejected.
- 15. Financial Bids should be uploaded only in the specific BOQ form available on the web portal against this Tender. Tenders, which are not in the prescribed BOQ form, are liable to be rejected.
- 16. Payment of the Total amount of EMD & Tender Fee should be made through Online Payment mode as a Single Transaction only.
- 17. Payment terms :- 100 % payment shall be made to the supplier (e payment) only after effective installation, testing and trial run of the testing unit, training to the Officers and acceptance of the same by the end users.
- 18. payment will be made after the performance evaluation by Director Dairy Development Department.
- 19. Price reduction on delayed delivery :- In case of delayed delivery, price reduction shall be applicable at the rate of 1% of the order value per week or part there of delay subject to a minimum of 10 % of the total order value.
- 20. Any litigation regarding the supply of equipment shall be subjected to Thiruvananthapuram district.
- 21. Successful bidder should remit an amount equal to 5% of the total contract value as performance security.
- 22. An agreement should be executed and signed by the Tenderer in the Kerala Stamp Paper of value Rs.200/-. A specimen form of agreement is given in the Tender Documents. Hard Copy of this agreement should be send to the Tender Inviting Authority on award of contract.
- 23. Online Opening of the Tenders will be done on the specified Date and Time through the official web portal of Tenders Kerala.
- 24. All items quoted must comply with the respective Specifications mentioned in the Tender notice and Bidders should upload the details and specifications of their items quoted.
- 25. The final total rates of Automatic Protein analyzer will be considered for selection of L1 bidder. No separate item will be considered.
- 26. The successful tenderer should supply the Items within 60days of execution of agreement of contract.
- 27. The Tender Inviting Authority (TIA) will not be responsible for any sort of the delay or the difficulties faced during the submission of bids through online by the bidders.
- 28. In addition to these all other General Conditions annexed in the Stores Purchase Manual of Government of Kerala are also applicable to this tender.

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DIRECTOR