

Government of Kerala Directorate of Dairy Development Department Pattom, Thiruvananthapuram

Notice Inviting Re-Tender

Ref: File No:DDDKER/3287/2023-F1 Dated 31/12/2024.

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.

TENDER DETAILS

Sl No	Description	
1.	Mode of Tender submi ssion	Online though e-Procurement portal at ht tps://etenders.kerala.gov.in
2.	Tender inviting Authority	Director, Dairy Development Department
3.	Date & Time of Public ation of Tender	31/12/24
4	Last date with time for	13/01/2025 4 PM

	receipt of Tender		
5	Date of opening of Ten ders	15/01/2025	
6	Estimate Amount	18,00,000/-	
7	Earnest Money Deposi t (EMD)	Rs.18,000/- 1% (rounded to the neares t rupees) of the total cost, subject to a minimum of `1,500	Online Remittance only through
8	Tender Fee	0.15% OF COST. ROUND TO NEAREST 100. Max. R S.25000 Rs.2700+ GST@ 18% Rs. 486= Rs. 3186/ -	https://etenders.k erala.gov.in
9	Contact Person of Dep artment of Dairy Devel opment for inquiry of t echnical details	Smt. Sheeba Khamer Joint Director (SDL) Directorate of Dairy Devel Pattom, TVM Ph:0471 2440074	opment,
10	Name & address whe re queries/correspond ence concerning this t ender is to be sent	Department of Dairy De velopment, Pattom Palace P O, Patto m, Thiruvananthapuram . 695004 e-mail: cru.ddd@keral a.gov.in jd-sdl.dairy@kerala.g ov.in Phone: 0471 2440074 Website: www.dairyde velopment.kerala.gov. in	

TECHNICAL SPECIFICATION

	TENDER SPECIFICATION		
	AUTOMATIC PROTEIN/NITROGEN ESTIMATION SYSTEM		М
SI NO	MINIMUM REQUIREN	MENTS	COMPAILANCE YES/NO
	PARAMETERS	REQUIREMENTS	
	Should be combined unit with all units from the same		

	manufacturer and consist of Digestion unit, Distillation		
1	unit, Scrubber and Accessor	EESTER	
1 1.1	POSITIONS		
		20 (250ml tubes)	
1.2	Heating Element	Aluminium Block	
1.3	Power Consumption	2700 Watts (Maximum)	
1.4	Temperature	Room Temperature – 450 °C	
1.5	Temperature Stability	± 0.5 °C %	
1.6	Time Range	1 – 999 Minutes or More	
1.7	Display	Graphic Display or better	
1.8	Control System	 Microprocessor Based System Should have programmable time & temperature ramping and audible alarms End of run with audible signal 	
1.9	Programme	 At least 25 pre programs for milk, milk products, animal feed, food products At least 20 user programs with temperature ramp Ramping of at least 4 ramps per Programme 	
1.10	Lift and suction cap control	Automatic	
1.11	Interface	USB	
1.12	Material Of Construction	SS with chemical resistant coating.	
2	SCRUBBER		
2.1	Material of Construction	Techno polymer / Poly Propelyne / Metal structure and PVC components / high endurance materials like borosilicate glass	
2.2	Features	 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. Capacity of Glass Tank : ≥ 2 L 	
2.3	Power Consumption	210Watts (Maximum)	
3	Automated Distilla	tion Unit	
3.1	Programmable	for all controls like cooling water, dilution water, sodium hydroxide, receiver solution, automatic calculation, automatic emptying of tube etc.	
3.2	Pump	Calibrational pump for NaOH,Boric acid,water and other reagents	
3.3	Display	Minimum 7 " coloured and interactive touch screen	
3.4	Programme	Minimum 15 Predefined Programmes	
3.5	Analysis Time	3-5 Minutes	
3.6	MEASURING RANGE	0.1 - 200 mg or more Nitrogen	
3.7	Recovery	≥ 99.5%.	
3.8	Detection Limit	0.1 mg N	
3.9	RSD	≤ 1 %	
3.10	Splash head	Alkali resistant techno polymer or poly propylene	
3.11	Material of Construction	Chemical and Corrosion resistant techno polymer or poly propylene (outer material)	

3.12	Interface / Connectivity	USB port or through Wi- Fi RS232 for External Titrator LAN LIMS or Equivalent	
3.13	Power Consumption	2400 Watts (Maximum)	
3.14	Other Specifications	There should be separation between distillation tube and segregation section either by wall or door The system should be provided with suitable password protection to prevent tampering of 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 Cooling water regulation by programming Automatic waste removal via tube	

		drainage after	
		distillation	
		 Steam output 	
		regulation between	
		· ·	
		10 % to 100%	
		• 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	
		 It should be 	
		possible for	
		retrieving data	
		using suitable	
		software which is	
		compliant to	
		traceability.	
4	ACCESSORIES	32 333 3 333 <u></u> - 5 3	
4.1	Digestion Tube 250 ml	40 Nos	
4.2	Sample Rack	2	
4.3	Stand For Sample Rack	2	
4.4	Suction Cap with Drip Tray	1	
4.5	Water & Reagent Tanks with	3	
	Сар		
4.6	Residue Collection Tank with		
17	Cap	1 Sot	
4.7 4.8	Complete Glass bottle set Complete Cables and	1 Set	
4.0	Tubing's	1 Set	
4.9	Major/Full PM Kit Digestor	1 Set	
4.10	Major/Full PM Kit	1 Set	
1	1	- 	l l

	Distillation Unit		
4.11	Major/Full PM Kit Scrubber	1 Set	
4.12	All other Accessories and Components for Proper Working of Equipment at Full Fledge.		
5	Method	Official approvals: AOAC,DIN and ISO Standards AOAC 984.13, EN ISO 5983-2 (AOAC 2001:11), AOAC 920.53, AOAC 950.09, AOAC 950.36, ISO-IDF 8968-1/20- 1:2014, ISO 20483, ISO 8968- 2, ISO 8968-3, ISO 8968-4, AOAC 979.09 EN ISO 5983-2 (AOAC 2001:11), AOAC 950.09, AOAC 978.04, EN ISO 5983-2 (AOAC 2001:11)	
6	Reference Standard	Certified Ammonium sulphate (min 80 g)	
7	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. • Application Book is Available	
8	Recommendations or Warnings	Any warning signs would be adequately displayed	
9	Warranty	3 year after satisfactory installation and working. With 3 Free Preventive Maintenance per Year Under Warranty Period.	

	1	The Warranty Includes all the
		Parts Except Consumables. **
		i i
		Provision should be there to
		extend the warranty up to 2
		years (at least)
10	AMC	Amc Quote for next 7 years
		after warranty
11	List of Spares and	List of all spares and
	Accessories	accessories (including minor)
		with part numbers and price,
		required for maintenance
		and repairs in future after
		guarantee/warranty period
		should be attached
12	Training	The supplier will have to carry
		out successful Installation at
		the laboratory premises
		(where ever the system has to
		be installed) and provide on-
		site comprehensive training
		for a minimum of two
		scientific personnel operating
		the system till customer
		satisfaction (no additional
		cost has to be charged)
13	Quality	
	Requirement	
	1	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 forsafety and
		quality standards from
		national /International
		bodies
14	IQ/PQ/OQ	On site IQ, OQ, PQ of
 - '	,	instrument along with
		document to be provided &
II	ı	The state of the province of

		supplier to assist till
		satisfactory PQ of instrument
15	After sales service/ Post	Contact details of
	warranty	manufacturer, supplier
	,	and local service persons,
		Application specialist to
		be provided, including toll
		free/ Landline Number;
		and mobile number
		Details of Service centres
		in INDIA and Minimum3
		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
16	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. This
		statement must be signed,
		with the company seal, for its
		authenticity and acceptance
		that any incorrect or
		ambiguous information found

Analyzer Machine in India

and able to produce alteast 5 performance certificate of same quoted machine from users including Government NABL Labs/Reference labs (to be submitted along with technical bid) • Company/Brand should have an experience of 10 years in the supply of **Automatic Protein** Analyzer Machine. • Bid specific OEM authorization certificate is required • The delivery challan shall indicate the model number & serial 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 or above Turnover for the last 3 years(Attach Proof) • Buyer reserves the right to reject/accept the items based on the market survey • The bidder should clearly mention the make and model number in BOQ compliance The bidders must show technical Additional Requirements 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)		
		Digestor, Scrubber, Distillation Unit and Accessories should be from the same manufacturer. The instrument shall be delivered with a Verification Test document that certifies that instrument has been performance tested in factory (confirming analysis performance). The Instrument shall strictly confirm to the specifications with relevant brochure and photograph and website information of the product 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 % between test results. Repeatability and reproducibility has to be proved and will be technically verified. This is an important requirement The System must be		
		compliant to ISO 17025:2017 ; Certificate from the manufacturer should be submitted		
18	Payment	Payment only after installation, validation and performance		
Tender	- 1 - Dairy Development	Department		
Supply	apply of Automatic Protein analyzer (1no)			

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 10 years.
- 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 to Government firms / institutions last year.
- 8. Copy of work orders of protein analyzer (at least 5 nos for last 2 years.
- 9. Bid specific OEM authorization certificate is required.
- 10. Bidder must have minimum 10 cores or above Turnover for the last 3 years (Attach latest Proof along with technical bid)

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 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.

DIRECTOR