



## Government of Kerala

Directorate of Dairy Development Department

Pattom, Thiruvananthapuram

# Notice Inviting Expression of Interest

**Ref : File No: DDDKER/2670 /2023/SDL - dtd  
27.09.2023**

In pursuance of the approval of The Director, Dairy Development Department vide proceedings No DDDKER/2670 /2023/SDL dated 20/9/23 , the Dairy Development Department invites Expression of Interest (EOI) for the **“Supply of detection kits with readers for the quantitative/ qualitative analysis of antibiotics in milk, aflatoxin M1 in milk and aflatoxin B1 in cattle feed”**.

Notice inviting **Expression of Interest** containing information regarding eligibility, dates and timelines, required formats, etc. will be published in the e Procurement portal of Govt of Kerala <https://etenders.kerala.gov.in>. The EOI shall be submitted by bidders/interested firms and companies through e tender portal of Government of Kerala on or before **30.10.2023** . Details can also be obtained from the Dairy Development Department official website [www.dairydevelopment.kerala.gov.in](http://www.dairydevelopment.kerala.gov.in)

EOI fees – as per provisions of [etenders.kerala.gov.in](http://etenders.kerala.gov.in)

**Director**

**Dairy Development Department**

<b>Sl No.</b>	<b>Description</b>			
1.	<i>Mode of EOI submission</i>	<i>Online through e-Procurement portal at <a href="https://etenders.kerala.gov.in">https://etenders.kerala.gov.in</a></i>		
2.	<i>Type of proposal required</i>	<i>EOI (Expression of Interest) Pre-qualification &amp; Technical Evaluation (Single cover)</i>		
3.	<i>EOI Download Start Date</i>	<i>16/10/2023</i>		
4	<i>Last date with time for receipt of pre-EOI queries</i>	<i>30/10/2023</i>		
5	<i>Last date for submission of EOI</i>	<i>31/10/2023</i>		
6	<i>Date of opening of EOI responses</i>	<i>01/11/2023</i>		
7	<i>Date of presentation by bidders</i>	<i>Will be informed after completing the per-qualification cover evaluation.</i>		
8	<i>Complete EOI Evaluation</i>	<i>04/11/2023</i>		
9	<i>Contact Person of the Directorate, Department of Dairy Development</i>	<table border="0"> <tr> <td><i>Smt. Gija C. Krishnan Joint Director (SDL) Directorate of Dairy Development, Pattom, TVM Ph:9495818683</i></td> <td><i>Smt. Nimi Ameer Sr. Dairy Extension Officer State Dairy Lab Directorate of Dairy Development Ph:9495592514</i></td> </tr> </table>	<i>Smt. Gija C. Krishnan Joint Director (SDL) Directorate of Dairy Development, Pattom, TVM Ph:9495818683</i>	<i>Smt. Nimi Ameer Sr. Dairy Extension Officer State Dairy Lab Directorate of Dairy Development Ph:9495592514</i>
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10	<i>Name &amp; address to which queries/correspondence concerning this EOI is to be sent</i>	<i>Department of Dairy Development, Pattom Palace P O, Pattom, Thiruvananthapuram. 695004 <b>e-mail: <a href="mailto:jd-sdl.dairy@kerala.gov.in">jd-sdl.dairy@kerala.gov.in</a></b> Phone: 9495818683, 9495592514 <b>Website:</b></i>		

	<a href="http://www.dairydevelopment.kerala.gov.in">www.dairydevelopment.kerala.gov.in</a>
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## Government of Kerala

### Directorate of Dairy Development Department

#### **Brief description of the project concerning the requirement of the Antibiotics and Aflatoxin Kits.**

Food safety and security pose major concern to the public health sector of the state.

**Antibiotic** resistance is an emerging global health threat and is resulting in the death of about 0.7 million people yearly. Usage of antibiotics in livestock and poultry causes the subsequent deposition of these residues in milk, meat and eggs. Poor sanitation, unhygienic practices and mismanagement of antibiotics in agriculture and livestock farms and its irrational use lead to higher antibiotic residues in food products

Around 40 – 90% of administered antibiotics is excreted through urine and faeces as its active form leads to environmental contamination. In environment, the antibiotic residues promote the development of resistant bacteria. Residues consumed through milk may cause different harmful effects to human health like carcinogenicity, mutagenicity, nephropathy, reproductive disorders etc. Consumption of antibiotic -contaminated milk also leads to skin irritations.

**Aflatoxins** produced by the *Aspergillus* species are highly toxic, carcinogenic, and cause severe contamination to food sources, leading to serious health consequences. Contamination by aflatoxins have been reported in food and feed, such as groundnuts, millet, sesame seeds, maize, wheat, rice, fig, spices and cocoa due to fungal infection during pre- and post-harvest conditions. Dietary exposure to aflatoxins may result in severe toxic and carcinogenic outcomes in humans and animals. Aflatoxin toxicity may result in nausea, vomiting, abdominal pain, convulsions, and other signs of acute liver injury

Milk is an important food as it provides the micro and macro nutrients essential for the growth and maintenance of human health. As milk and milk products are consumed by all age groups, including young children, dairy milk must be free of toxic compounds, including mycotoxins. However, milk and milk-based products can contain aflatoxin M<sub>1</sub> (AFM<sub>1</sub>), a metabolite of the mycotoxin aflatoxin B<sub>1</sub> (AFB<sub>1</sub>), a potent human carcinogen.

AFM<sub>1</sub> occurs in the milk of dairy cattle ingesting feed contaminated with AFB<sub>1</sub>, which is partly converted to this hydroxylated metabolite and then excreted in milk.

As AFM<sub>1</sub> may pose health risk for consumers of milk from dairy cattle fed with AFB<sub>1</sub>-contaminated feed stuff, a regular monitoring mechanism of AFM<sub>1</sub> is needed to ensure compliance with food standards and thereby protecting the population against hazardous dietary exposures.

The identification and quantification of aflatoxins in food and feed is a major challenge to guarantee food safety. Therefore, developing feasible, sensitive and robust methods is of paramount importance for the identification and quantification of aflatoxins present even in low concentrations in milk and feed.

The major objectives of implementation of the project are

1. Creating public awareness
2. Development of rapid screening methods for antibiotic residue assessment and aflatoxin level at production, collection and processing points.
3. Immediate grading and prohibition of foods containing more than MRL (Maximum Residue Limit)
4. Prevention of irrational use of antibiotics
5. Ensuring Food Safety and Security to both Humans and Animals.

The main objective of inviting the EOI for **“Supply of detection kits with readers for the quantitative /qualitative analysis of antibiotics in milk, aflatoxin M1 in milk and aflatoxin B1 in cattle feed”** is to investigate the prevalence of aflatoxin and antibiotic residues in the samples of milk and feed obtained from dairy farms & Dairy Cooperative Societies.

**Mandatory documents required to be uploaded**

Pre-Qualification and proposed product specifications shall be included as scanned signed copies in the e portal along with EOI

1. Covering Letter
2. General Information of the company and company profile
3. Legal identity details
4. Company Registration details
5. Letter of proposal expressing interest to supply kits to Dairy Development Department
6. Detailed component wise technical specification of detection kits with readers for the quantitative analysis of antibiotics in milk, aflatoxin M1 in milk and aflatoxin B1 in cattle feed
7. Product certificate
8. Legal certifications (if any)
9. Experience pertaining to supply of kits detailing the years and months.
10. No. of installations / Kits supplied nationwide during last 5 years
11. No. of installations / Kits supplied in Kerala state during last 5 years
12. No. of installations / Kits supplied to Government firms / institutions last year
13. Copy of work orders

14. After sales service centers and details of technical support
15. Warranty details offered
16. Details of Annual turn over
17. Customer reference list
18. Special features of the product which can be termed as an additional qualification.

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### **Evaluation of EOI**

1. The e submitted EOI shall be evaluated by a technical panel of Dairy Development Department nominated by The Director, DDD
2. Screening of EOIs shall be carried out as per the provisions included in Administrative sanction order, Approved DPR and related orders issued by The Director, Dairy Development Department
3. EOI will be evaluated for shortlisting inter alia based on the technical data, past experience of handling similar type of products and customer reference list.
4. The bidders participating in the EOI, after the technical evaluation of EOI shall make a PPT presentation regarding the technical details and functionalities of the products. Further a live demo using spiked samples need to be performed before the technical panel.
5. The Department will take up reference and reserves the right to evaluate and check the authenticity of claims made by bidders.

#### **Disclaimer :**

*1.Submission of EOI through e Portal by a bidder will not be treated as a claim for issue of work order or as a privilege for submission of subsequent bids or any claims related to the project*

*2.Dairy Development Department reserves the right to withdraw from the implementation of the said project without prior notice or intimation and also annul the bidding process at any point of time without stating any reasons thereof*

**DIRECTOR**