



**Kerala Co-Operative Milk Marketing Federation**  
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**Bid Reference No. KCMMF/SYS /233/2024-25**

**Tender Notice for Development of Supply chain Monitoring Module and Cold chain  
Monitoring Module**

**January - 2025**

## Expression of Interest- Notice

**KCMMF/SYS/233/2024-25**

15.01.2025

1. KCMMF Invites **Expression of Interest** in single cover - Bid from software development companies with minimum 5-years experience in software development for the '**Development of Supply chain Monitoring Module and Cold chain Monitoring Module and ERP Gap Analysis & Optimization Study**'.
2. This is an Open Tender inviting EOI for short-listing the parties based on the Technical Evaluation

<b>SL.No</b>	<b>Particulars</b>	<b>Details</b>
1.	Bid Reference	<b>KCMMF/SYS/233/2024-25</b> dated: 15.01.2025
2.	Tender download	<a href="http://www.etenders.kerala.gov.in">www.etenders.kerala.gov.in</a>
3.	Bid submission starting date	15.01.2025
4.	Last date and time of submission	22.01.2025 4pm
5.	Date and time of opening	23.01.2025
6.	Venue of Opening of Tender	KCMMF HQ
7.	Estimated cost	
8.	EMD	Nil
9.	Tender Document Fee	Nil
10.	Bid Validity	120 days

The Expression of Interest with the Design Document submitted will be evaluated in detail by a committee of Kerala Co-operative Milk Marketing Federation to select the parties who are Technical Qualified to proceed further.

The Kerala Co-operative Milk Marketing Federation shall have the right to accept / reject this EOI fully or partially without assigning any reason thereof.

**Managing Director**

## **EXPRESSION OF INTEREST FOR SOFTWARE DEVELOPMENT & GAP ANALYSIS OF EXISTING ERP**

Known by the popular brand name 'milma', Kerala Co-operative Milk Marketing Federation (KCMMF) was formed in 1980 as a state adjunct of the National Dairy Programme 'Operation Flood'. It is a three-tiered organization. There are more than 3000 primary societies affiliated to Milma that are grouped under three Regional Co-operative Milk Producers' Unions viz TRCMPU for Thiruvananthapuram region, ERCMPU for Ernakulam region and MRCMPU for Malabar region. At the apex level, KCMMF functions from the headquarters at Thiruvananthapuram. Our vision is to constantly strive to provide valued consumers with the highest quality milk, milk products and other products with the best standards of service by our passionate and focused work forces using state of the art technology ensuring sustained growth and simultaneously ensuring dairy farmers' delight by better realization of milk price and offering needed service at his/her doorstep.

The software and ERP solution's to the units under Federation and to the three Regional unions are providing and maintained by KCMMF. We require an efficient and user-friendly system to track the supply chain of the products and cold chain of the products that are being manufactured and supplied from the units under KCMMF and the units under three regional unions affiliated to KCMMF.

Kerala Cooperative Milk Marketing Federation (KCMMF) is inviting Expression of Interest from software development companies with minimum 5-years experience in software development to develop an effective web based software system for supply chain monitoring and cold chain monitoring.

The following are the primary objectives of the Modules

### ***a. Supply chain Monitoring Module***

1. **Vehicle Tracking:** Develop and deploy a robust geo-remote sensing system to monitor vehicles covering routes for delivery and procurement. Ensure real-time tracking of vehicle routes, locations, and schedules, with alerts for deviations or delays. Planning routes based on the capacity of vehicle and quantities to be delivered.

2. **Anti Tampering Measures:** Incorporate tamper-proof mechanisms with alert systems for unauthorized access or disruptions of procurement vehicles.
3. **Integration with Existing ERP:** Integration with existing ERP solutions by Providing API's .
4. **Data Analytics and Reporting:** Enable advanced analytics for route optimization, delivery performance, and compliance tracking. Provide role-based dashboards and periodic reports
5. **Route Optimization & Delivery Planning:** Enable efficient routing for vehicles with multiple deliveries & optimizing overall logistics.
6. **Training and Handing over:** Deliver comprehensive training sessions on the completion of the development and handover it to the MIS section of KCMMF.

#### ***b. Cold chain Monitoring Module***

1. **Cold Store Management:** Implement real-time monitoring of cold store conditions with online temperature tracking to ensure optimal storage conditions. Enable systematic tracking of SKUs or products, detailing their location within the storage facility for streamlined inventory management. Implement real-time stock tracking with automated alerts.
2. **Refrigerated Vehicle Tracking and Integration:** Deploy IoT-enabled tracking systems to monitor, real-time temperature, and refrigeration performance during transit, implement modular sensors for flexibility, allowing easy transfer between vehicles to accommodate dynamic transport contracts.
3. **Integration with existing ERP:** Integration with existing ERP solutions by Providing API's .
4. **Data Analytics, Reporting, and Alert System:** Develop advanced analytics and reporting tools to provide actionable insights into key metrics such as temperature trends, route efficiency, and vehicle performance, supported by automated documentation & standardized monitoring. Design role-specific dashboards for ensuring real-time data visibility, operational transparency, and decision-making capabilities. Implement an intelligent alert system for real-time notifications of temperature deviations, and refrigeration issues, along with robust error detection to promptly address sensor malfunctions and minimize disruptions.
5. **Training and Handing over:** Deliver comprehensive training sessions on the completion of the development and handover it to the MIS section of KCMMF.

#### ***c. ERP Gap Analysis & Optimization Study***

1. **Assessment of Current ERP:** Map the ERP usage across the Federation and three regional unions, detailing module utilization and integration levels within organizational units.

Identify areas of limited implementation and operational gaps in ERP usage. Evaluate the role of the ERP system in daily operations to highlight strengths and weaknesses.

2. **Comprehensive Gap Analysis:** Conduct a detailed review of operational workflows, including data flow processes across plants, offices and supply chains. Identify specific inefficiencies and bottlenecks in the current system. Highlight areas where existing ERP functionalities are insufficient to meet organizational needs. Provide recommendations for technological upgrades to address identified gaps.

### ***Technical Specification for software***

#### ***Front End:***

Laravel Frame work ( PHP )

HTML

CSS - Bootstrap

JS - JQuery

#### ***Back End:***

Postgresql

#### **Documents to be submitted:**

- Design Document for Supply chain Monitoring and Cold chain Monitoring Modules (Technical specification for the hardware and software must be clearly specified)
- Methodology Document for conducting ERP Gap Analysis & Optimization Study
- Proof of Experience in the field of Software Development
- Experience in MILMA(if any) – Previously developed software
- GST Registration
- PAN Card
- Three years turn over details about the Company

Expressions of Interests are invited from reputed companies / registered firms to submit a Design Document for the Proposed modules for Development and Interlinking with existing ERP Systems.

For any query you may contact: 04712786419, 2786420

**Managing Director**