

REQUEST FOR QUOTATION (RFQ)

Supply Testing and Commissioning of a 10,000L Milk Transport Tanker

Ref No.: LDFCS/08/RFQ/2026

Purchaser: LIMURU DAIRY FARMERS COOPERATIVE SOCIETY LTD

Country: KENYA

Issued on: 03/08/2026

Submission: limurudairy@gmail.com or engldfcs@gmail.com

Closing Date: 10/08/2026 at 10:00 AM

1. Introduction

Limuru Dairy Milk Processing Plant (LMPL) invites quotations from qualified vehicle bodybuilders, authorized distributors, and dairy equipment suppliers for the supply, delivery, testing, and commissioning of one (1) **10,000 Litre Insulated Milk Road Tanker Truck**. The tanker shall be designed for the hygienic long-distance transport of chilled raw milk from collection centers to the processing plant, complete with a clean-in-place (CIP) system and an integrated milk reception/pumping unit.

2. Design Conditions

Parameter	Requirement
Tanker Type	Truck-Mounted Insulated Milk Transport Tanker
Product	Chilled Raw Milk
Nominal Capacity	10,000 Litres (Plus 2% expansion volume)
Compartments	2 Compartments (5,000L + 5,000L) with surge baffles and 2 dip stricks
Insulation	High-density Polyurethane Foam (PUF), min 50-100mm
Temperature Loss	Max 1°C rise over 24 hours at 40°C ambient temperature
Inner Shell Material	AISI 304 or AISI 316L Stainless Steel (Food Grade), min 3mm
Outer Cladding	Polished AISI 304 Stainless Steel or High-Quality Aluminum, min 2mm
Internal Finish	Sanitary finish, grit 180-240, mirror polished
Manhole Assembly	2 x Insulated dust-proof manholes (500mm diameter) with pressure/vacuum relief valves
Discharge Pump	Stainless steel hygienic centrifugal/lobe pump (Approx. 20,000–30,000 LPH)
Pump Drive System	Hydraulic drive via Truck PTO (Power Take-Off) or Electric Motor
Flow Metering	Electronic turbine flow meter with digital ticket printer (Optional/Required)
Cleaning System	Integrated spray balls (CIP compatible) in each compartment
Ladder	Stainless steel ladder
Chassis Compatibility	Suitable for a 4x2 or 6x2 rigid truck chassis

	(Supplier to specify required GVW)
Documentation Language	English
Tanker Type	Truck-Mounted Insulated Milk Transport Tanker

3. Scope of Work

A. Tank Shell & Insulation Construction

- Fabrication of a 10,000L elliptical or max-section stainless steel tank.
- Division into two independent 5,000L compartments for safety and flexibility.
- Installation of internal anti-surge baffle plates to prevent liquid sloshing during transport.
- Injection of high-density PUF insulation for temperature retention.
- Hermetically sealed outer cladding to prevent moisture ingress into insulation.

B. Fittings, Valves & Piping

- Bottom outlet discharge lines (3-inch diameter) merging into a central rear cabinet.
- Pneumatic or manual hygienic butterfly valves for each compartment.
- Stainless steel rear dust-proof, lockable cabinet housing all valves, pumps, and controls.
- Side ladders, non-slip catwalk, and safety collapsible handrails matching UN/Kenya traffic safety rules.

C. Integrated Pumping & Metering System

- High-capacity hygienic stainless steel pump driven by the truck's engine PTO.
- Inline air eliminator system to ensure accurate milk volume measurement.
- Digital control panel inside the rear cabinet for pumping operations.

D. CIP (Clean-In-Place) System

- Fixed rotary or static stainless steel spray balls covering 360° inside each compartment.
- Centralized CIP inlet connection point at the rear utility box.
- Self-draining design ensuring no chemical or water retention after cleaning.

E. Chassis Mounting & Commissioning

- Fabrication of heavy-duty mild steel/stainless steel runner sub-frames.
- Mounting of the insulated tank onto the truck chassis using standard mounting brackets and springs.
- Installation of mudguards, side reflectors, and rear underrun protection bars.
- Testing, calibration of the tank volume, and operator training.

4. Schedule of Supply and Prices

Item	Description	Qty	Unit	Unit Price	Total Price	Make/Model	Country	Remarks
1	10,000L Fabricated Insulated Stainless Steel Tank	1	No.					Included subframe
2	Integrated PTO-driven	1	Set					

	Hygienic Discharge Pump							
3	Electronic Milk Flow Metering & Printer System	1	Set					Optional item
4	Internal CIP Spray Ball System Assembly	1	Set					
5	Rear Dust-Proof Stainless Steel Component Valve Cabinet	1	No.					Lockable
6	Tank Mounting onto Truck Chassis & Bodybuilding Works	1	Lot					Excludes truck chassis
7	Calibration, Testing & Commissioning	1	Lot					Government certified
8	Driver & Operator Training	1	Lot					On safety & CIP
9	Operation & Maintenance Manuals (English)	3	Sets					
10	Warranty (24 Months on Tank Integrity)	1	Lot					
	Sub-Total							

Sub-Total _____

VAT (if applicable) _____

Grand Total (KES) _____

5. Performance Guarantee

- Total volume capacity of 10,000 Litres (split into dual 5,000L compartments).
- Maximum milk temperature rise of $\leq 1^{\circ}\text{C}$ over 24 hours in Kenyan ambient conditions.
- Total drainage efficiency leaving zero stagnant liquid pockets inside the tank.
- Dynamic stability approval for road safety during cornering and braking.
- 24-month structural warranty on the tank shell and welding joints.

6. Documentation

- Technical Datasheets for Stainless Steel & Pumps
- General Arrangement (GA) Tank Drawings
- Mounting & Sub-frame Structural Blueprints
- P&IDs of Pumping and CIP lines
- Official Volume Calibration Chart (Approved by Kenya Weights and Measures)
- Operation & Maintenance Manuals (English)
- Spare Parts Catalogue

7. Commercial Requirements

- Fabricated Equipment Cost
- Fleet/Chassis Integration Cost
- Delivery Period to Limuru Dairy
- Quotation Validity (Minimum 60 days)

Availability of local mechanical and welding after-sales support 8.

Completion

The project shall be deemed complete after successful mounting, leak testing, volume calibration certification, operator training, and formal acceptance sign-off by the LMPL engineering team.