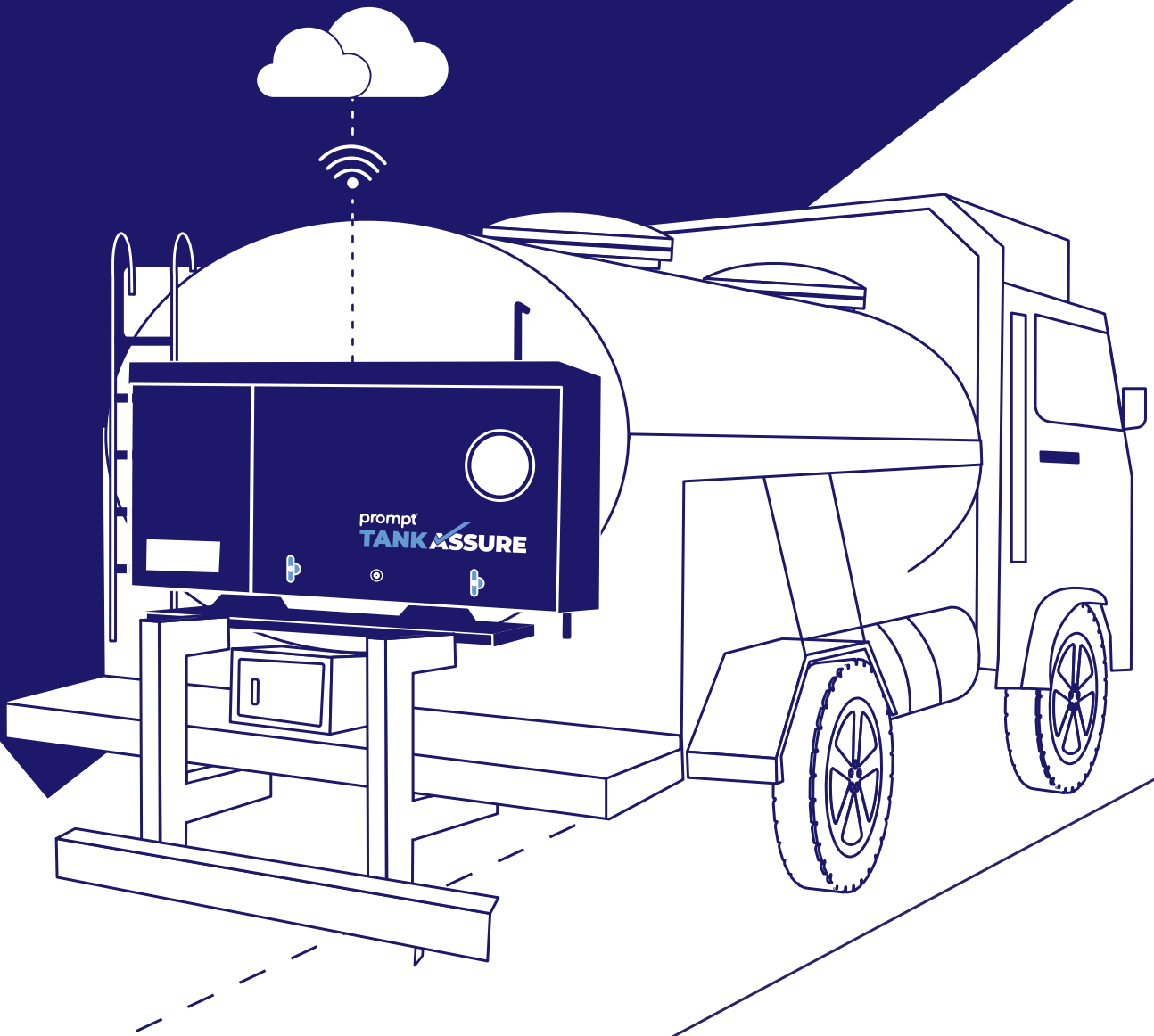


prompt[®]
TANK ASSURE

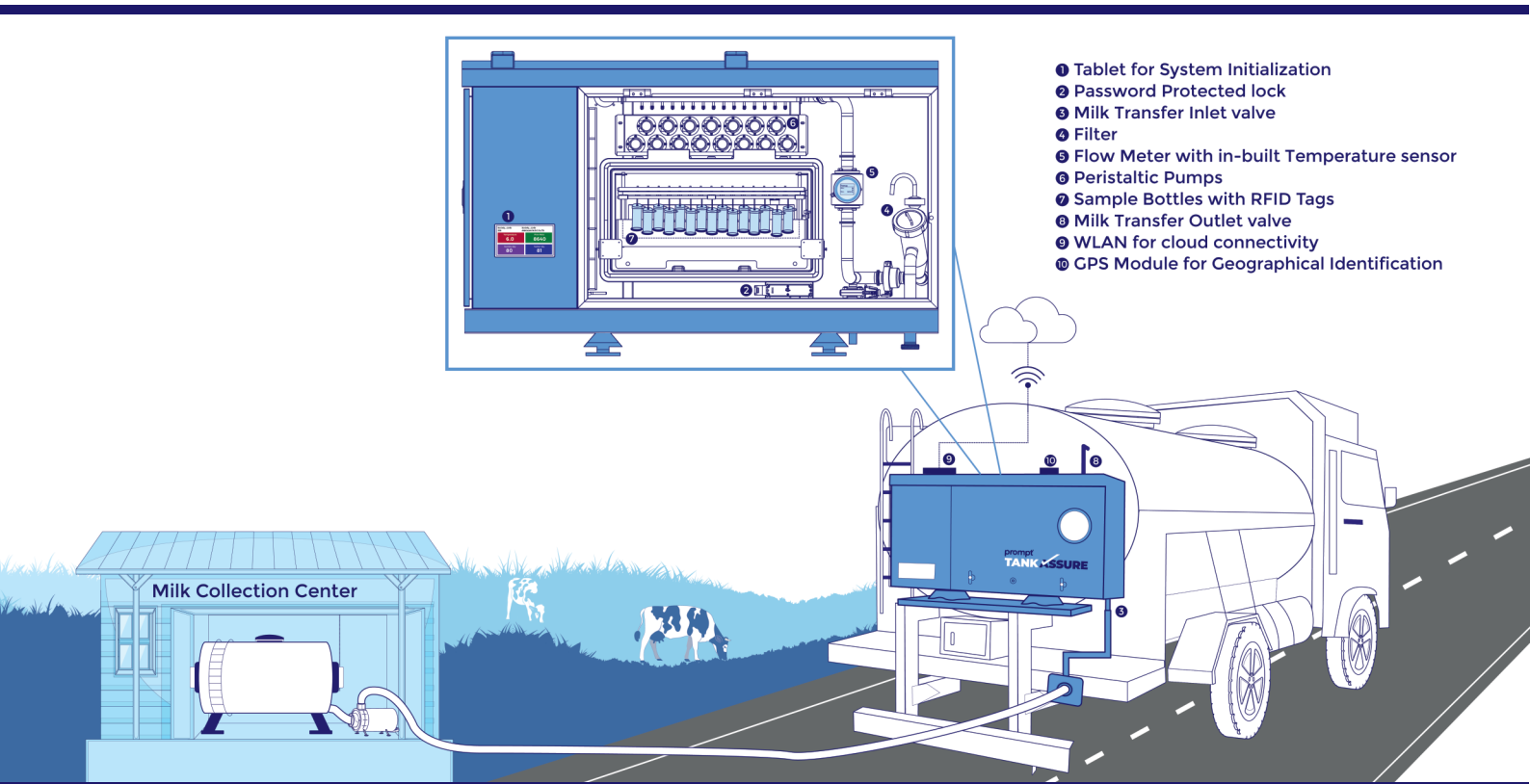
automatic milk sampling system



CURRENT CHALLENGES

Accurate recording of the quantity and quality of milk samples collected at milk collection points is essential. Currently, milk quantity is measured manually through dipstick reading and milk sampling is done manually. The sample taken from the milk collection point is not secured and prone to manipulation.

The temperature of the milk transferred to milk tanker is not measured. The data of composite milk sample is also not taken into consideration. Therefore, to overcome these challenges, Prompt has uniquely developed TankAssure, an intelligent and digital system which automatically samples milk from milk collection point.



An automatic milk sampling system, with GPS, Wi-Fi and RFID technology

TankAssure is an electro-mechanical, intelligent box mounted behind the milk tanker. It is a closed, containerised and digitally password-protected secured system that consists of sampling pumps, and RFID-tagged tamper-proof sample vials.

It automatically collects the milk sample of milk collection point, measures the milk quantity and temperature with the help of an in-built magnetic flow meter equipped with a temperature sensor.

KEY HIGHLIGHTS OF THE SYSTEM

- ▶ Enables secured and automatic sampling of composite milk samples of various milk collection points.
- ▶ The system can log the location and time stamp data from where milk transfer starts and stop.
- ▶ Only authorised personnel can open the electronically protected door at the dairy.
- ▶ The entire operation is controlled by a web-based portal accessed through a tablet device. The milk quantity and temperature data of each milk collection point is transferred to a central portal which can be used by the dairy for further business analysis.
- ▶ It can be integrated with any route management app and automatic milk collection system.

TANKASSURE - TECHNICAL SPECIFICATIONS

Model	S7	S15
No. of sampling bottles	6 for Society samples 1 for composite sample	14 for Society samples 1 for composite sample
Peristaltic pumps	7 No.	15 No.
Sampling capacity	40 ml	40 ml
Major technical parts	PLC, Electro magnetic Flow meter, GPS, RFID tag & Reader, Peristaltic pumps	
Data transmission	Wi-Fi, 4G	
User interface	8" 4G + Wi-Fi Tablet	
Central data controlling	Central Web-Based Application	
GPS	GPS, GLONASS or Galileo, 24VDC, Ethernet, IP68, Internal Antenna, Temperature Range -40 °C to +70 °C	
Flow meter	Electromagnetic Flowmeter Measure: Flow, Temperature and Quantity Output: 4-20mA, Pulse Accuracy Max. ±0.5 % o.f.s.	
RFID tag reader	13.56MHz, LED Indication, IO-Link Interface, M12 Connection, IP67	
RFID tag	13.56MHz, Readable and Writable, 2kBit EEPROM, ISO15693, IP68	
Supply voltage	24V DC (From Tanker Battery)	
Housing	SS 304	
Electronic control panel	SS 304, IP65	
Milk line	1.5 Inch, MOC SS 304	
Fitting clamp	1.5 Inch, MOC SS 304	
NRV	1.5 Inch, MOC SS 304	
Filter	2mm Perforated 2mm Thickness	
Air vent	1 Inch, MOC SS 304 Gasket-EPDM End Connection-1.5" TC end	
Weight of auto sampler	< 250kg	
Dimension of auto sampler (mm)	1502 X 990 X 595	1581 X 957 X 632
Door lock	Electro-mechanical, IP67 Protected	

Please Note: The above-mentioned specifications are for seven and fifteen samples, The same can be customized as per the customer requirement.

BENEFITS OF TANKASSURE



Enhanced Sampling Accuracy
Collects uniform and representative samples ensuring consistent and accurate sampling from each milk collection point.



Enhanced Quality Control
Measures milk temperature and volume at each milk collection point, aiding in precise quality assessments and inventory management.



Quality Composite Samples
Maintains correct proportion of milk collected from each collection point, and also ensures that composite samples are collected accurately, reflecting the total milk quality.



Operational Efficiency
Automates the process of milk collection, reducing time and manual effort and minimizing the need of manual labour.



Comprehensive data collection
Automatic logging of detailed data for quality control, traceability and data analysis.



Cost Efficiency
Reduces costs incurred due to manual sampling such as labour and consumables.



Ensures Compliance & Traceability
Meets all the regulatory requirement ensuring consistency, and provides accurate sampling improving traceability across the dairy supply chain.



Indigenous System
An indigenous and cost effective automatic milk sampling system made for Indian dairy industry.

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