

## BENEFITS OF TANKASSURE



### Transparency

System digitally captures quantity, quality and temperature of milk, bringing transparency between milk collection point and Dairy.



### Composite Milk Sample

The system does auto-sampling of composite milk from all milk collection points.



### Minimal manual Intervention

The data is automatically recorded, hence there is no need to enter data manually, thereby reducing the chances of human error.



### Data Analysis

The system automatically captures milk quantity and temperature data of each milk collection point on the server, which can be used for business analysis.



### Farmer Assurance

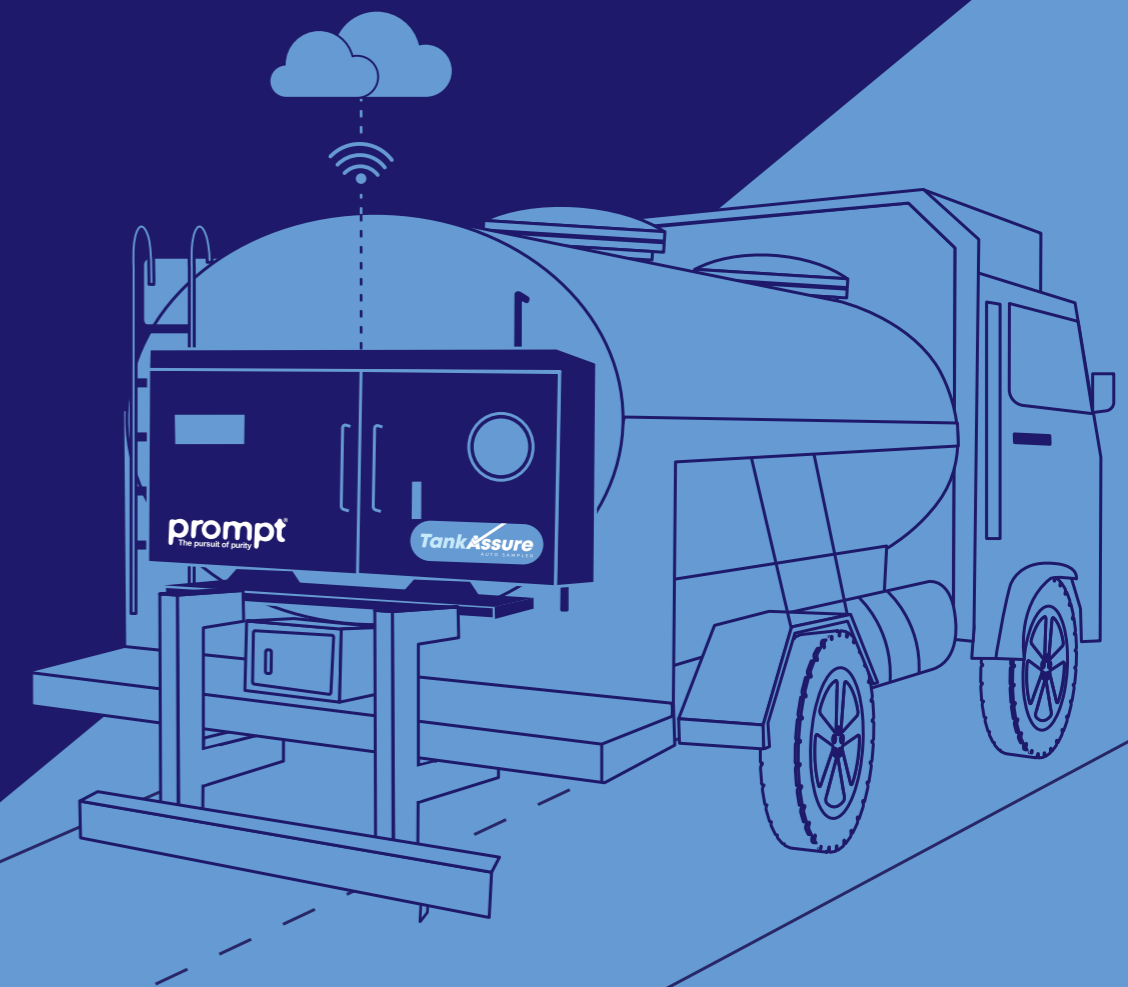
Due to auto sampling, the accuracy of milk samples is high, so the farmer can feel assured about getting correct payment for their milk poured.



### Profitability of Dairy

With accuracy in sampling and quantity of milk, the overall effectiveness and profitability of milk collection points and Dairy increases.

# AUTOMATIC MILK SAMPLER SYSTEM FOR MILK TANKERS



Prompt Equipments Pvt. Ltd.  
3-B, Vardan Exclusive, Nr. Stadium Petrol Pump, Navrangpura,  
Ahmedabad – 380014, Gujarat, India  
+91 7926565981/2/3 | info@promptdairytech.com | www.promptdairytech.com

Follow us on    

**prompt**<sup>®</sup>  
The pursuit of purity

**TankAssure**  
AUTO SAMPLER

## Current Challenges

Accurate recording of quantity and quality of milk samples collected at milk collection points is an essential piece of information. Currently, milk quantity is measured manually through dipstick reading and milk sampling is done manually by agitating BMC milk. There is no security of sample taken from DCS and it is prone to manipulation. Temperature of the milk transferred to milk tanker is not measured.

Also, there is no method to authenticate the which sample is of which milk collection point. Furthermore, data of composite milk sample is also not taken into consideration. Therefore, to overcome these challenges, Prompt has come out with a unique technology, called TankAssure - An automatic milk sampler system for milk tankers which is an intelligent and digital system.

PRESENTING,



An Automatic Milk Sampling System,  
with GPS, Wi-Fi and RFID technology.

TankAssure is an electro-mechanical, intelligent box, which is 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 functions to automatically collect milk sample of BMC, measure milk quantity and temperature with the help of an in-built magnetic flow meter with a temperature sensor.

## Key Highlights of The System

- The electronically protected door can be opened only at the dairy plant by authorized persons only.
- Enables secured and automatic sampling of composite milk samples of various milk collection points.
- The system can be configured to start/stop operations at the targeted location only.
- The entire operation is controlled by a web-based portal accessed through a tablet device. Milk quantity and temperature data of each milk collection point is transferred to a central portal, which can be used by dairy for further business analysis.
- Prompt Logistics App and/or Prompt AMCS App can be integrated into this system for route management.

## TANKASSURE - TECHNICAL SPECIFICATIONS

No. of Sampling Bottles	6 for Society Samples 1 for Composite Sample
Peristaltic Pumps	7 No.
Sampling Capacity	40 ml
Major Technology Parts	PLC, Electro Magnetic Flow Meter, GPS, RFID Tag & Reader, Peristaltic Pumps
Data Transmission	Through Wi-fi, 4G
User Interface	8" 4G + Wi-Fi Tablet
Central Data Controlling	Through Central Web Base Application
GPS	GPS, GLONASS or Galileo, 24VDC, Ethernet, IP68, Internal Antenna, Temperature Range -40 °C +70 °C
Flow Meter	Electromagnetic Flowmeter Measure: Flow, Temperature and Quantity Output: 4-20mA, Pulse, Accuracy Max. ±0.05 % o.f.s. or ±5 µA
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
Electronics Control Panel	SS 304, IP65
Milk Line	1.5 Inch, MOC SS 304 Semi Simless
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)	1575 X 777 X 500
Door Lock	Electro-mechanical, IP67 Protected

The above specifications are for seven samples, The same can be customized as per customer requirement.