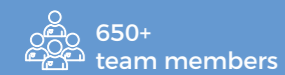


prompt

The pursuit of purity

Our ideas and innovations are a part of the pursuit of maintaining the sanctity of milk so that the world's most ancient health drink can be appreciated as it truly is - untouched and unadulterated.



Optimise your dairy business with related category products

AMCS

AMCS (Automatic Milk Collection System) provides a comprehensive solution to digitize the farmers and rural areas of India. The software automates the traditional milk collection and procurement process followed by the dairy industry.



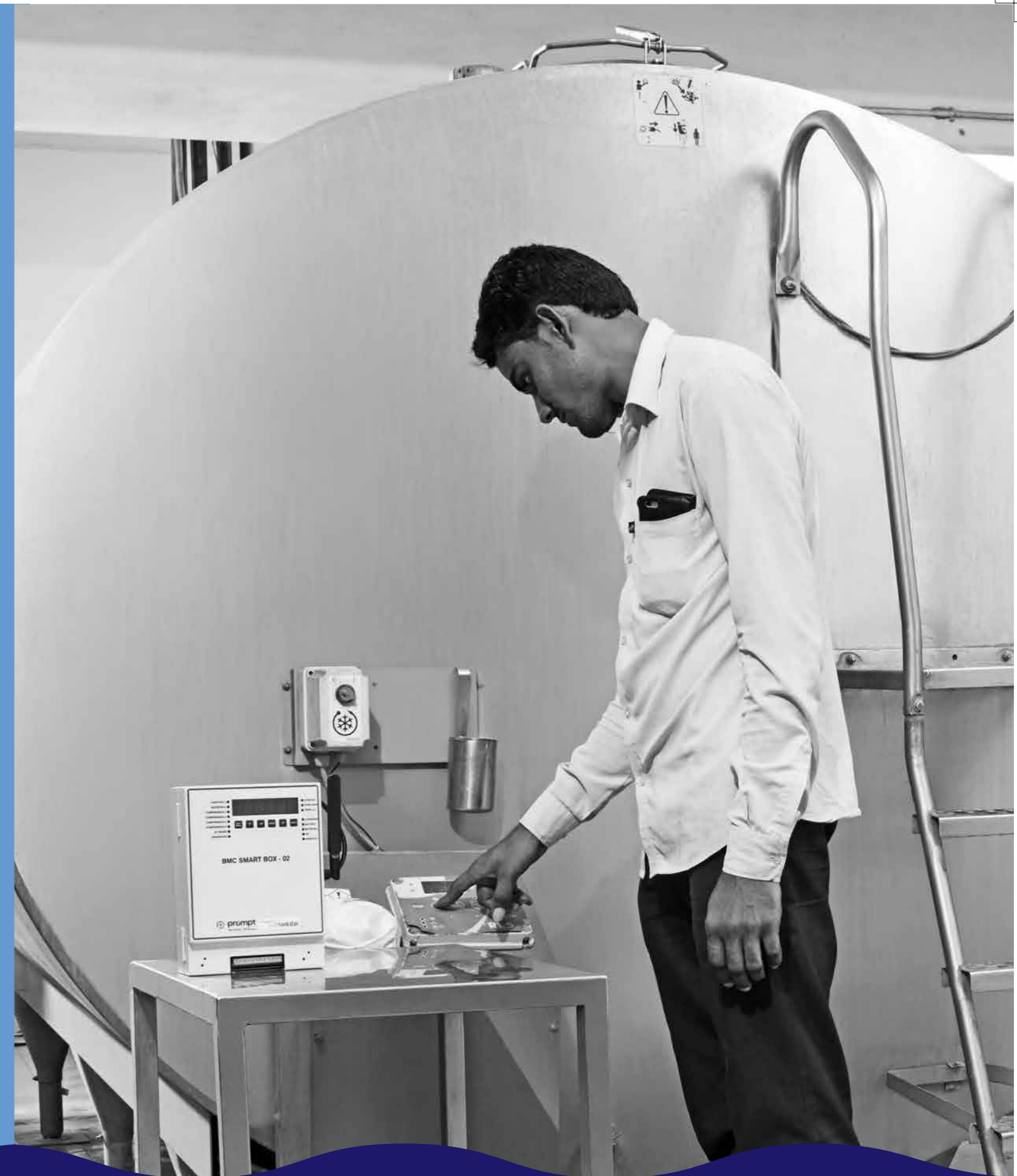
Logistics App

Amul Logistic App is an Android-based app developed to assist Milk Union for monitoring milk collection data and milk quality at union and society level. The primary ambition behind the development of this IoT based application was to provide a grip over the management of the dairy supply chain.



MilkoScreen

MilkoScreen analyses the product using FT-Infrared technology, assessing milk constituents, using absorption at different wavelengths in the infrared spectrum to detect the presence of specific parameters in milk like fat, SNF, and protein.



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The pursuit of purity

BMC SMARTBOX
(BULK MILK COOLER
MONITORING SYSTEM)

How do we keep it pure?

Prompt provides innovative solutions for an efficient dairy procurement supply chain. From farm management and milk collection to quality analysis and preservation, we have different equipment and software to ensure that the purity of milk is retained at every step. Our unique offering, the BMC SmartBox maintains purity of



the milk during chilling and storage phase, through real time monitoring of parameters such as Milk Volume, Temperature, CIP Status, Agitator Status, and Power/Generator Status in the BMC. Real time App assisted alerts are sent out which support timely actions to maintain purity of milk.



Our resource in this pursuit – Prompt’s BMC SmartBox (Bulk Milk Cooler Monitoring System)



THE MOST VALUABLE SYSTEM LINK IN THE CHAIN OF MILK MANAGEMENT

BMC center has an important place in the milk supply chain. How the bulk of milk collected here is monitored, to retain its quality, affects the final value of milk at the production level. BMC SmartBox helps take care of the precious milk by enabling people at BMC centers and dairy plants remotely track the monitoring of milk coolers in real-time. It also uses highly advanced laser beam technology to measure the milk quantity in the tank to attain the highest level of accuracy and notifies the server through its GSM connectivity in case of any deviation.



-  Real-time monitoring and remote tracking
-  Multiple compressor and generator/power grid on status

-  Sends alerts via SMS, Mobile App, and Email
-  Designated App for dairy plant managers and BMC operators

-  BMC capacities – 500/1000/3000/5000/10000 litres
-  Measures Quantity, Temperature, Agitator - for mixing, Compressor, CIP – cleaning in process

FEATURES:

Data Capture

- Milk Quantity
- Milk Temperature
- Power Status (Generator/AC Mains)
- Multiple Compressor & Agitator ON/OFF Status
- Max temperature of hot water and CIP duration
- Energy Meter Interface (Optional)

The system offers web-supported SMS and Email alerts for above data.

Security

- Secure data transfer using a 256-bit Encryption technique
- Role-based user login in a web application
- Cleaning-in-Process (CIP)

Data Monitoring

- Dashboard shows BMC Milk Status for particular BMC, Day's Highest Procurement, Milk Summary according to milk type, avg. fat and SNF, etc.
- Route-wise Live BMC Monitoring shows graph and records for milk quantity, temperature, agitator & compressor ON/OFF status for each BMC on the route.

Data Transfer

- To Pen Drive through the USB port
- To remote server through GSM/GPRS

Dispatch

- Details like actual dispatch, remaining quantity, temperature, compressor, agitator and generator ON/OFF are logged
- The user can also enter DIP stick reading and tanker number

Cleaning in Process (CIP)

- Max. Temperature of hot water and CIP duration is logged

Reports

- Reports for milk data, offline BMC device, shift complete, date and route-wise dispatch, generator used status, dispatch, high temperature in BMC, etc. are generated

TECHNICAL SPECIFICATIONS:

Controller	PIC32 Based Controller		
Display	• Seven Segment Display • LEDs For Indication of Low Battery, External Supply, Sim Network, Mains Power, Generator, Multiple Agitators On/Off And Multiple Compressors On/Off		
Storage/Media Type	Micro SD		
Capacity	4 GB (In-Built) – Expandable Up To 8 GB – Unlimited Data Storage		
GSM Module (Optional)	GSM/GPRS Quad Band Module		
Keyboard	Six Keys For User Entry		
USB Ports	1 USB Port		
Clock	Built-In Real Time Clock for Date and Time		
Sensor Modules	For Temperature • Sensor: PT100 • Accuracy: ± 1° C • Range: 0°C To 70°C	For Level Measurement Base System • Accuracy of Volume: ±0.4% of BMC Capacity • IP67 Electrical Connection	For the Power Consumption of BMC • Energy Meter (Optional)
Environment	• Operative Temperature : 0 To 65°C (32°F To 149°F) • Relative Humidity : 5% To 85% RH Non Condensing		
Power Supply	180- 260 Volts, 50 Hz		
Power Consumption	15 Watts		
Battery Backup	4400mAh Li-Ion Battery which provides 5 hrs. Battery Backup		

WHAT ARE ITS BENEFITS?

Makes BMC operationally efficient

Real-time alerts, tracking and monitoring makes BMC operationally efficient. It helps the dairy in controlling the operational costs associated with running the BMC with the help of BMC SmartBox.

Quality of Milk is retained

With continual monitoring, the desired temperature of milk in the BMC is maintained, which prevents curdling, souring and spoiling of milk, thus preserving proper milk quality. Good quality of milk serves as a good raw-material for value added products manufactured by dairy.

Informed decision making

BMC SmartBox is based on IoT technology with cloud connectivity, giving detailed data analytics on web application. This allows the dairy to make informed business decisions.

Monitors quantity of milk

Keeps the user updated about the quantity of the milk in the BMC and the quantity of milk when taken out of the tank after dispatch to the Chilling Centre. This helps avoid any theft of milk.