



Success Story

e-Doodh Solutions Plant intelligence solutions helps Amul Satellite Dairy for Delivering Fresh Milk Products in Region of Maharashtra

This dairy was refurbished and upgraded to a fully automatic (Integrated) plant from a manual dairy. It was done with an Integrated Computerisation/ Automation solution using a plant-wide network of PLCs and PCs over 10/100 mbps fast Ethernet. This plant intelligence system provides full integration, traceability and visibility into actionable plant data.

The complete automation is done on turnkey basis by M/S e-Doodh Solutions Pvt.Ltd. , which is an Indian company with the technical base in Houston (USA), with mutual support of technical and engineering staff of Amul Satellite Dairy.

This plant belongs to Kaira District Co-operative Milk Producers' Union Limited which was the First Co-operative Milk Producers' Union started in Gujarat, formed in Kheda district.

Its success, also known as Anand Pattern led to creation of District Co-operative Milk Producers' Union at each district, created Amul (Anand Milk Union Limited) in 1946. And AMUL is biggest dairy brand in Asia and also the largest exporter of dairy products in the country

eDoodh has successfully introduced the automation and computerization of entire milk processing. Right from reception of Milk in Tankers to operation of chillers, pasteurizers, standardization, and dispatch for packing. All milk processing operation are controlled and closely monitored by operator sitting in air-conditioned centralized control room.

The Milk Process

Every evening, raw milk is delivered from the farms to the dairy and milk processing begins. At each stage of the process, critical information — such as pasteurization temperatures and flow data from the cleaning process — Must be tracked and recorded. Automating data collection has significantly increased the amount of control managers have over the day-to-day operation of the dairy.

“The previous dairy systems were not automated,” Mr.Joshi (Plant Manager) said. “The PLCs were not connected, there was no reporting, and there was no traceability. It was also possible to overfill a tank, leading to unnecessary waste and, because the process was highly manual, it was time-consuming And in-efficient. “Previously, in order to access vital process information, We had to go through piles of reports. But the new system automates everything, and we can now provide critical process information to the people who need it to make important business decisions.”





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“Traceability is mandatory and has been for many years. But, when you use a paper-based system, it takes a lot of time, slowing response time,” Joshi said. “With the previous system, it would take hours to locate the appropriate data to resolve a customer complaint.

e-Doodh's plant intelligence system has enabled Amul Satellite Dairy to enhance its reporting capabilities to more quickly address customer complaints. We are now able to access reports more quickly, which allows us to identify any errors in the manufacturing process that necessitate a product recall. “In addition to faster response times, this new level of traceability actually reduces the risk of having to recall a large amount of milk processing information because we have detailed information of each shift. All we need is a date and shift to know exactly what time a given product was produced and what ingredients were used to make the product. We can then create a report and see exactly what was going on at that time and then implement a limited recall if necessary.

The One Amul Strategy

One of the drivers behind the adoption of an effective plant intelligence system was a directive from Amul corporate headquarter in Anand, which wanted better visibility into the performance of all its diverse plants. This Strategy is called “One Amul”.

All the extracted reports are sent to headquarter on daily basis, this make it easier for our corporate headquarter to follow up on business operations on a regular basis — be that daily, weekly or monthly.

Implementing the e-Doodh plant intelligence solution has also helped Amul Satellite Dairy improve its ability to follow up on quality issues. The organization now has documentation for the cleaning and filling processes as well as a variety of temperatures, enhancing the dairy's ability to monitor the manufacturing process and ensure high product quality.



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