

## Food & Beverages and FMCG Industry

Sarla Technologies is an ISO 9001:2015 certified Engineering Services and Solution organisation. We have been providing Global Engineering Services and Solutions to our Customers for the past 18+ years in the field of Industrial Automation, Design Engineering and Plant IT. We have executed more than 200 major projects across various processes for the Food & Beverage (F&B) and Fast-Moving Consumer Goods (FMCG) industries.

We have rich experience on end-to-end processes and equipment used in F&B and FMCG plants from reception to dispatch. We have utilized our knowledge on various standards like ISA-88, ISA-95, PackML, FDA guidelines, etc. to provide scalable and flexible engineering services to our customers.



### F&B Products Experience

#### Dairy

Milk, Cream & Powder  
Yogurt & Butter  
Cheese & Margarine  
Soy & Flavored Milk  
Ice-cream

#### Breweries & Beverages

Beer & Malt  
Wine & Alcoholic drinks  
Soft Drinks  
Energy Drinks  
Fruit Juices

#### Confectionary

Chocolates  
Candy Bars  
Milk & Energy Bars  
Bakery products  
Biscuits, Cookies

#### FMCG

Vegetable Oil  
Sauce & ketchup  
Infant formula  
Shampoo, Toothpaste,  
Soaps & Detergents  
Hand-wash & Liquid soap

### Services and Solutions



#### Industrial Automation

Application Development- PLC, DCS, SCADA, HMI, Safety  
Control System Migration & Upgrade  
Simulation testing, FAT, SAT  
Commissioning  
24x7 Support



#### Design Engineering

Detailed Engineering- Plant, Process & Equipment  
2D drafting and 3D modeling  
Mechanical, Piping and Structural  
Electrical & Instrumentation  
Migration / data conversions



#### Plant IT & Software

Batch and Recipe Management  
MES, ERP integration  
Plant Analytics and Reporting  
C#, VB .NET, C, C++, WPF, SQL Server  
Open Source: Python, AngularJS, Java

### Our Experience on Various Systems, Processes and Equipment

#### Dairy

Homogenisation,  
Pasteurisation, UHT  
Evaporator & Dryer  
Separation &  
Filtration  
CIP & Utilities  
Filling & Packaging

#### Breweries & Beverages

Batching, Blending,  
& Mixing  
Malting & Mashing  
Filtration, Distillation  
& Evaporation  
Fermentation  
Filling & Packaging

#### Confectionary

Batching, Blending,  
Grinding & Mixing  
Sterilization  
Powder, Milk, Cream  
Liquid units  
Heat Treatment  
Filling & Packaging

#### Vegetable Oil

Degumming &  
Bleaching  
Hydrogenation  
Winterization  
Fat Modification  
Saponification  
Bottling, Packaging

#### FMCG

Batching, Blending,  
Mixing, Cooling  
Evaporation  
Crystallization &  
Drying  
Heat Treatment  
Bottling, Packaging

## Our Success Stories in Food & Beverages and FMCG Industry

### Greenfield Automation for a European Process OEM at one of the largest Dairy Plant in China

**Processes:** Raw milk storage, Milk & Cream Pasteurization, RO, Separators, Filling & Packaging.

**Scope:** FDS Design, Application development for PLC, SCADA, Integrated Testing, Customer FAT, Commissioning and Remote 24x7 support.

**Hardware & Software:** PLC- Siemens S7- 400, SCADA- Wonderware Archestra.

### 3D Modelling & Detailed Engineering for a major F&B OEM at a major Dairy in UAE

**Processes:** Product and utility piping, Overall drawings for pasteurizer skids & frames, hot & chilled water distribution systems.

**Scope:** Equipment & Piping Engineering, 3D modelling and 2D drawings, Layout drawings, BOM based on Piping & Instrumentation Drawing (P&ID).

**Software:** Autodesk Inventor, Plant3D & AutoCAD.

### Batch & Recipe management for a System Integrator at a leading Personal Care Brand in US

**Process:** Batching, Mixing, Blending, Ageing, Oil Extraction, Filtration, Bottling, etc.

**Scope:** Batch Model & Recipe Development, PLC & SCADA Application development, Integrated testing, FAT and Onsite Commissioning.

**Hardware & Software:** Batch- Wonderware InBatch, PLC- Rockwell ControlLogix, SCADA- Archestra.

### Shop floor to MES integration for a System Integrator at an Energy Drink Manufacturer in UK

**Plant Areas Integrated:** Batching, CIP, Filtration, Filling, Storage and 9 Packaging lines.

**Scope:** MES enablement, PLC hardware upgrade for connectivity, and PLC code development for data capturing, FAT and Commissioning.

**Software:** MES- Wonderware MES, PLC- Siemens S7-300, S7-400, S7-1500, Rockwell ControlLogix.

## Key Enablers

**In-house PLC Labs & Experience Center:** Industrial skid with sensors, valves, drives. PLC labs with Siemens, Rockwell, Mitsubishi, etc.

**Online Project Management Tool:** Cloud based project and quality management tool to track the development of the projects.

**Quality Management Systems:** ISO 9001:2015 certified quality management system and practices.

**State of the art Infrastructure:** Reliable IT and network system with secured FTP, VPN, back-up servers, networking & in-house IT support teams.

## Our Value Proposition

**One Stop Shop:** For various Engineering Skills- Automation, Design, Plant IT projects.

**Food & Beverage Expertise:** End-to-end process knowledge & experience in standards like ISA-88, ISA-95, OEM software standards.

**Specialists in Migration & Upgrade:** Rich knowledge of various tools for migration & upgrades.

**Absorption of Variable Project Load:** Engaging on projects from few man-weeks to multi-year contracts.

**Cost Efficient Engineering:** Proven Remote Engineering Model with cost competitive resources.

Let's connect

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