



At SIPEPL, complete solution to plant automation is provided. As part of the solution, MCC Panels are engineered and supplied with the plant to ensure the safety of the motors and field instruments for the Batching and Processing Sections. For the ease of operation of the Margarine Plant, SIPEPL provide options of either Desk Panel Control or SCADA Control. In addition, standalone panels for packaging machines are also provided with requisite automation.

Bottom/Top Entry C.S. Powder Coated **MCC Panels**, to accommodate all MCCBs, MPCBs, Contactors, VFDs etc. to operate the plant with all required interlocks to ensure safe operation of the plant at all times. The Control Panels supplied with the plant shall have separate panels for the processing and batching.



The **Processing Control Panel** shall be a duly wired SS Panel comprising of Temperature Controllers, Pressure Indicators and Controllers, RPM Meters, start/stop buttons for various motors in the plant with fault indicators and controls and automation for Refrigeration controls in the Process Plant.

The Microcontroller **Batching Panel** shall be a duly wired SS Panel comprising of the Batching Controllers with a predefined program to perform the Batching operation. This panel shall integrate the load cells with the weighing terminal and perform the batching operation through a pre-defined program. This panel shall be supplied as part of the Panel Control Operation of the Batching Section of the Plant.





PLC based supervisory control and Data Acquisition system for Monitoring and Recording process parameters for Margarine Process Plant uses an Allen Bradley/ Siemens PLC on a DLR Network using Ethernet IP/ Profinet IP protocols

Complete Load cell based **Batching Software** in which over 300 recipes can be stored. SIPEPL's batching logic uses the Pneumatic Valves and Pumps to prepare the batch as per the pre-defined recipe upon a click of a button.



The Logic for **processing** enabling the user to enter the parameters under which the specialty fat can be packed and be stored for a particular product



The PLC Logic for control of all **refrigerant parameters** by controlling the motorized valves provided in the liquid and suction lines of the Sinitators control the levels to ensure the inner tubes are always flooded.





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PLANT AUTOMATION

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