

ABSTRACT

The main objective of the thesis is to design an operating system for a large scale premix factory. Premix, the additive for animal feeds, is considered a "high technology" product, associated with high value added and profit margins.

As premixes do play an important role in the production of major protein sources for human consumption, key characteristics of such a system are similar to those of food and medicine related systems, namely quality assurance, quality control, perishability and traceability associated with lot of productions and control of finished goods and raw materials. The operating system designed must be able to take care of all these aspects without excessive amount of data collection and form filling. The approach used in the design is along the line used by Information Engineering methodology first proposed by Martin and Finkelstein.

The system has been implemented and used for some time on a manual basis in one of the largest premix plants in Asia.

