



Department of Mechanical Engineering

INDUSTRIAL VISIT REPORT

BRIEF DESCRIPTION

Karnataka Milk Federation (KMF) is the largest Cooperative Dairy Federation in South India, owned and managed by milk producers of Karnataka State. KMF has over 2.30 million milk producers in over 12993 Dairy Cooperative Societies at village level, functioning under 14 District Cooperative Milk Unions in Karnataka State. The mission of the Federation is to usher rural prosperity through dairy development. During the last four decades of Cooperative Dairy Development by KMF, the dairy industry in Karnataka has progressed from a situation of milk-scarcity to that of milk-surplus.

VISIT DATES AND DETAILS:

3 BTME - D August 7, 2015 (Friday) From 2 p.m. to 4 p.m.

3 BTME - C August 10, 2015 (Monday) From 2 p.m. to 4 p.m.

3 BTME - B August 11, 2015 (Tuesday) From 2 p.m. to 4 p.m.

3 BTME - A August 31, 2015 (Monday) From 2 p.m. to 4 p.m.

Place : Karnataka Milk Federation
Good Life Packing Unit, Kumbalgodu, Bangalore

Contact person Mr Kisha Reddy (Manager Dairy)
E Mail : vkrkomul@gmail.com

Facilities Packing of Good life Milk

Faculties Prof. Niranjana, Prof. Reghu , Prof. Umesh, Prof. Ajit , Prof. Ben
Rajesh, Prof. Nikita, Prof. Ramkumar

Mode of Transport College Bus

Start Time 1.45 p.m.

End Time 3.45 p.m.

PROCESSING OF MILK IN THE FACTORY

This unit processes 70-80 thousand liters of milk every day. All the milk that gets processed are come from Mandya district, an hour's drive from Bangalore.

The pasteurized milk is stored in the milk storage tank. The pasteurized milk is then led into the sterilization unit through pipelines. This unit consists of a homogenizer which maintains the milk at 137 degree Celsius for 4 seconds. The sterilized milk which is now all set to be packed is sent to primary packaging unit through feed pipes. This production unit is mainly concerned with production of 100, 200 and 500 ml packets of slim and toned milk. The slim variant has zero fat while the latter has a trans-fat of 3.5%. Separate machineries are used for production of different quantities of milk packet. The tetra pack into which the milk is filled has 4 layers. Polyethylene is being used for the innermost and outermost layer while aluminum and paper board being used for the middle layers. A sensor based tagging machine prints the MFD on the packets and this marks the primary packaging process.

All the tagged packets are sent to secondary packaging unit through a conveyor belt where all the packets are put into the carton boxes. They undergo strict inspection and are quality checked on various parameters like acidity, CLR, and packaging integrity. The quality checked products are dispatched to TAMIL NADU and ANDHARA PRADHESH.

PHOTOS



