

Belgaum District Cooperative Milk Producers Societies Union Limited, Belgaum - 590 016

UNIT PROFILE

General Information of BEMUL : Government Dairy, Belgaum, was established in the year 1971 with milk handling capacity of 10,000 LPD under Govt. Milk Scheme. The integrated, dairy development activated in Karnataka started on sound footing with Govt. of Karnataka initiating dairy development project in 1974 with the World Bank Assistance. The AMUL Model Co-Operative System was followed for Dairy Development activities in Karnataka. Initially Dairy Development was started in 8 districts of Southern Karnataka. Later in 1983 Integrated Dairy Development activities were started in Northern Districts of Karnataka from Oct 1984 under Operation Flood-II project of National Dairy Development Board which gave impetus for further development in Dairying. Belgaum Milk Union started functioning with effect from December 1985. Belgaum district is North Western border district of Karnataka, 512 km away from Bangalore and it is on the border of Maharashtra and Goa States. The geographical area of Belgaum district is 13,415sq kms with 1138 inhabited villages. The rainfall in the district is 594.90mm. The district is formerly known as land of sugar later turned into land of sugar and milk. New dairy plant was established in the year 1995 with milk handling capacity of 60,000 LPD expandable to 1,00,000 LPD to serve consumers with pasteurized milk and products such as Ghee, Peda, Curd, Sweet milk, Masala Butter Milk and Belgaum special sweet "Nandini Kunda". There are 314 primary dairy co-operative societies functioning which are affiliated to the union. In all around 15,280 milk producers families supplying milk to the union through Primary Milk Producers Co-Op Societies. Around 64,867 families are depending on Dairy activities for their livelihood of whom many are land less labourers and belongs to weaker section. The major objectives of the union shall be to carry out activities conducive to the economic and socio-economic development of the milk producers by organizing effective promotion, processing and marketing of commodities.

Energy conservation was started in the union from the year 1999 –2000 much before the commencement of **Total Energy Management** affiliated to “The Karnataka Co-Op Milk Federation” with the support of NDDB and IRMA.

ENERGY CONSERVATION ACHIEVEMENTS

INSTALLED AND COMMISSIONED :

50H.P KC-2 Ammonia Compressor

The existing 100 H.P KC 4 Ammonia compressor was run to maintain cold-room temperature during night shift.

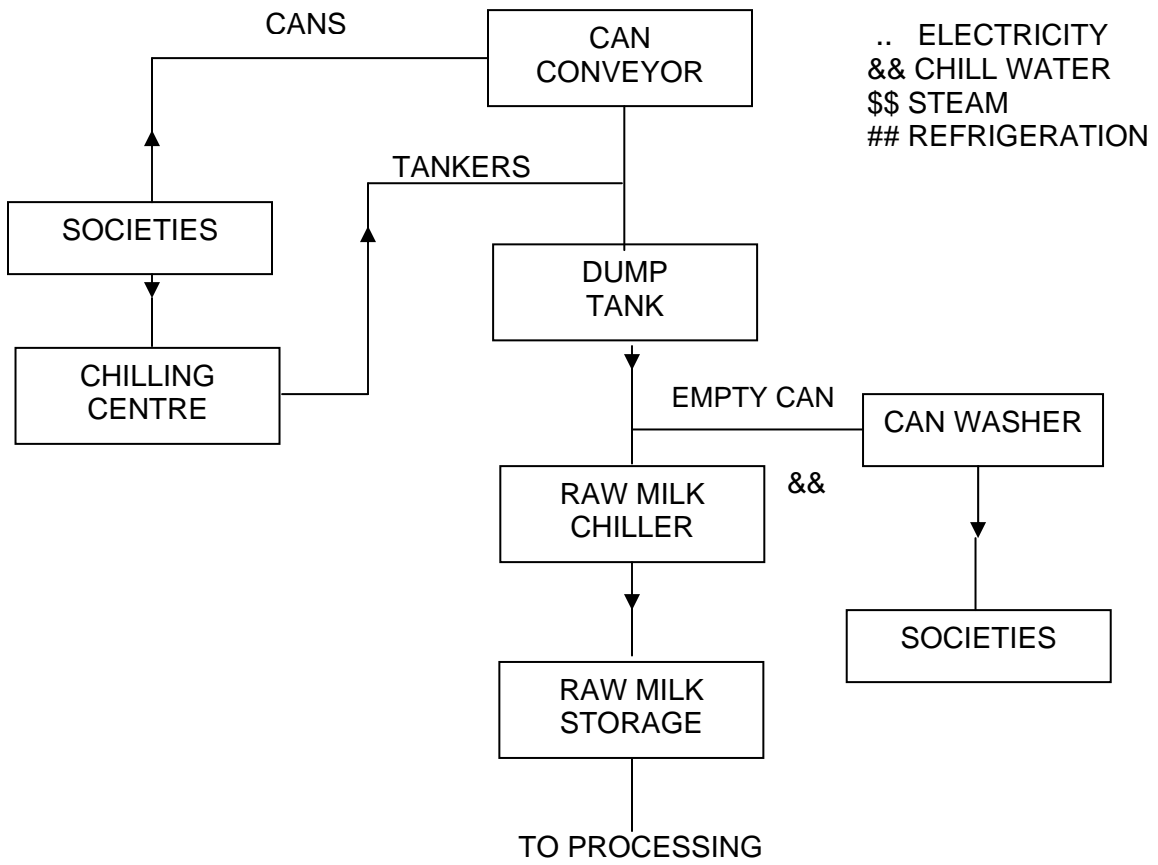
Then it was planned to run 100 H.P KC 4 compressor during processing hours and run 50 H.P KC 2 compressor during non processing hours.

There by reducing Energy Consumption and also improved PF upto 0.93 lag and there by reducing the I²R losses contribute to save electrical.

Further awareness has been drawn towards minimum use of energy as per requirement and also all production activities are integrated in the morning shift there by savings has been achieved.

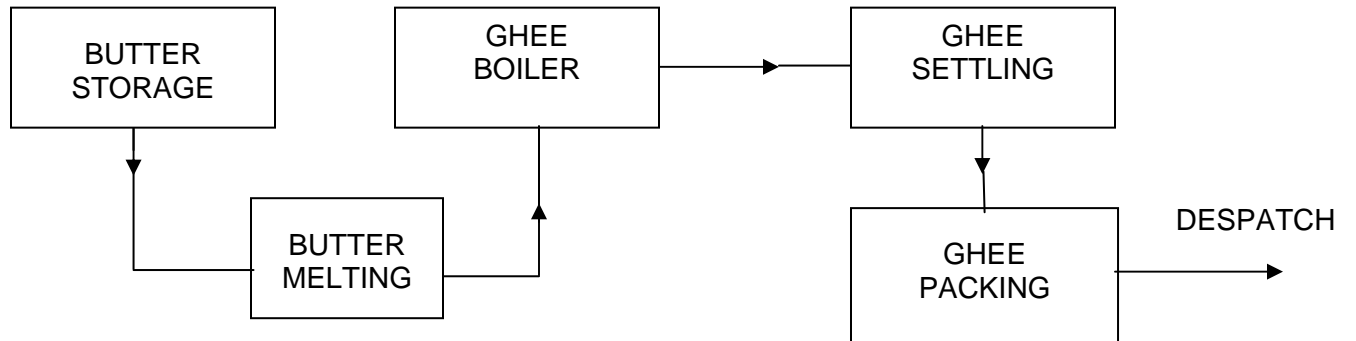
In view of above we are able to save 7.0 lakhs in electrical energy bills.

A. RECEPTION

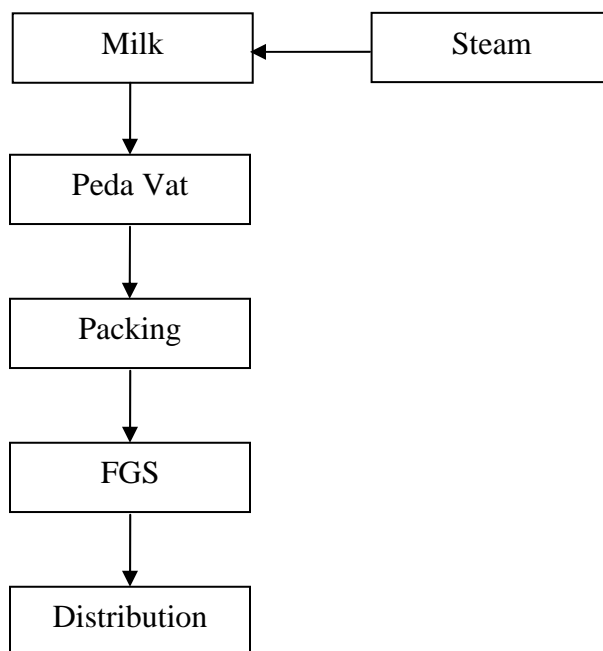


PROCESS AND ENERGY FLOW

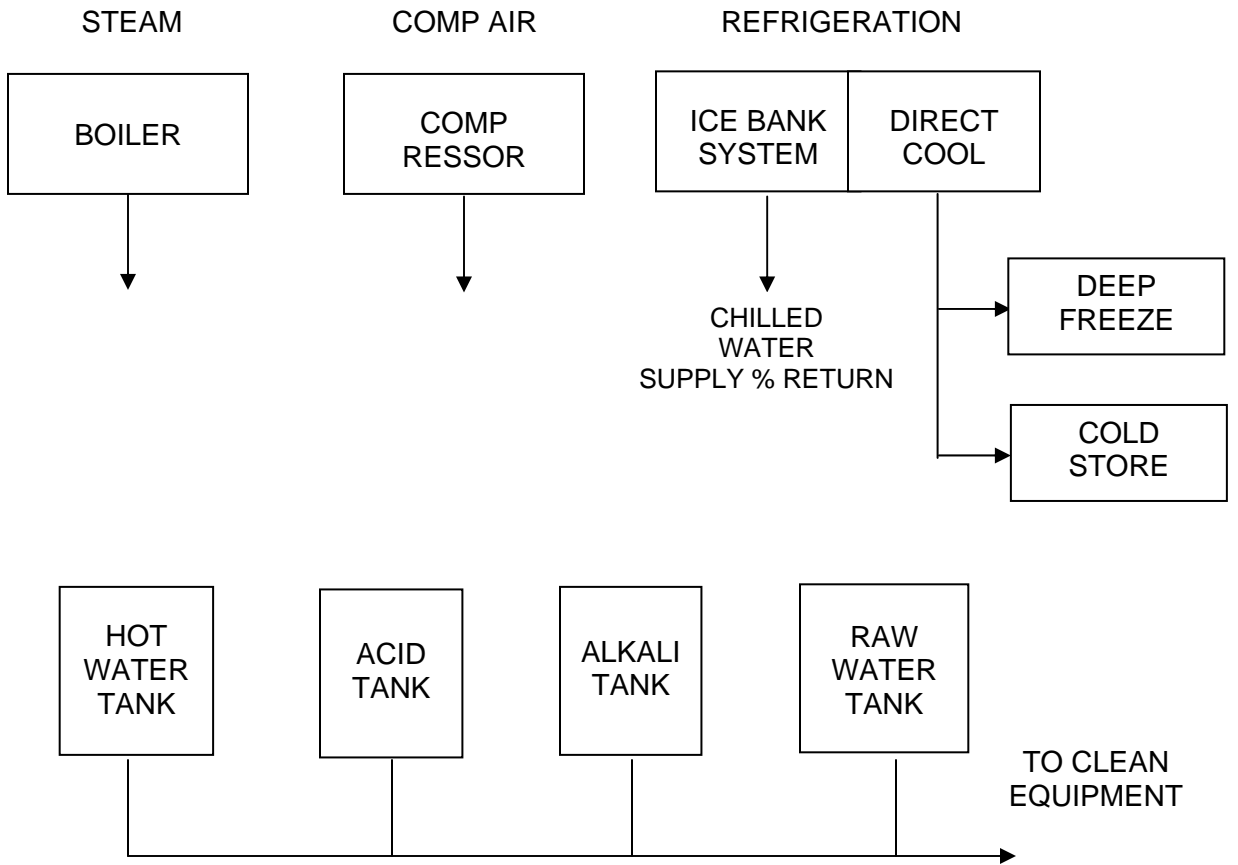
GHEE MAKING



PEDA & KUNDA



F. UTILITY



Year	2001-02	2002-03	2003-04
Electricity consumed in Lakhs KWh	8.092	8.127	8.007
Cost of electricity in Lakhs Rs.	37.995	40.194	40.392
Specific electrical energy consumption KWh/KL	38.07	36.83	31.80
Fuel oil consumed in KL	148.26	154.16	147.88
Cost of fuel oil Lakh Rs.	16.857	17.188	19.002
Specific energy consumption million of Kcal/KL	0.0662	0.0664	0.0558
Total energy cost	54.852	57.382	59.394
Energy cost as manufacturing cost	23.89	26.33	23.92

ENERGY CONSERVATION COMMITMENT

We are committed towards energy conservation by creating awareness towards providing training to our staff with the help of in K.M.F & N.D.D.B. Electrical, Boilers and Refrigeration sections.

ENERGY POLICY

Belgaum Milk Unions Committed to conservation energy and maintain in the area of plant by educating all the connected staff and there by gaining competitive edge by reducing. Operational cost control increasing market share of milk and milk products for prosperity of producers, consumers and employers for mutual help for the nation and organization.

Energy conservation Plans and Targets

(i) Unit Profile

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(ii) **Energy Consumption**

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Energy Consumption Details

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