

School Children Milk Feeding Program – Vietnam A Project Review



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Performance Against Goals

- **Goal:** To Set Up a Model, Small Scale Milk Processing Plant with emphasis on highest degree of Hygiene Standards.
- **Actual:** The dairy plant produced 2,000 Liters per day Pasteurized & Homogenized Milk, packed in poly pouch with provision for production of Yogurt & Flavored Milk.

Performance Against Schedule

- **Plan:** Initial project conceptualization & planning started – November 2003.
 - Target date for Milk Distribution Program by August 2004.
- **Actual:** Land O Lakes & Encon India.
 - Interaction Feb. to April 2004
 - Order Placement by May 2005
 - Supply July 2005
 - Commissioning Sep / Oct 2004

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Performance Against Quality

- **Quality goal:** Hygienically Clean Milk for school Children.
 - Acceptable standard 5,000 bacterial counts.
- **Actual:** During initial trial runs could achieve
 - As low as 500 bacterial counts!
 - Longer shelf life
 - Clean & SAFE milk for School Children.

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Performance Against Budget

- **Budget:** The entire cost was split in 3 parts
 - For plant & machinery supply by Encon
 - For Installations & Consumables by LOL.
 - For land & building + utility service by dairy farm
- **Actual cost / expenditures:** The overall cost achieved was well within the budget and considering the standards that could be achieved, the total expenditure was far lower in comparison to plant from Europe.

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The Project

Name: Nong Troung Song Hau
- Soha Farm

Location: Can Tho' City, 200 km
south east of Ho Chi Minh City
- Vietnam.

Dairy plant on a 5,000 acker highly fertile farmland having integrated facilities producing variety of farm products like Fruits, Vegetables, Fisheries, Piggery, Hatchery, Dairy Farm etc.



Project Planning How Was the Project Planned?

- Under Dairy Link Project, Land O Lakes Vietnam initiated idea of setting up a small scale dairy plant for supply of milk to school children. Responsibility of Project coordinator was to,
 - Identify right local partner,
 - Supply Plant & Machinery,
 - Provide Technology & Training,
 - Device & Place marketing plan.

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Project Planning How Was the Project Planned?

- Project was well defined from the beginning.
 - Dairy Technologist from Land O' Lakes Albania was appointed to coordinate entire activities.
 - Identified the right partner from Vietnam,
 - Identified right technology & plant machinery.
 - Prepare meticulous plan for project implementation.



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Project Planning Was the Plan the Right One?

- The entire plan was well defined & flawless.
- The main constraints were time & distance.
- Plant in **Vietnam**, Consultant from **Albania**, Supplier from **India** & headquarter in **USA**.
- Truly an international project, required tremendous coordination efforts & commitment from all involved.
- Team leader ensured that all go well as planned.

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Project Management How Was the Project Managed?

- Meetings: Before finalizing equipment specifications, dairy technologist who was responsible for the project, visited project site in Vietnam & equipment supplier in India
 - It really helped in selection & design of the system.
- Communication: Thanks to modern Email & Tele communication facilities.
 - Each one were well informed and up to date on development on almost day to day basis.
- Changes: were tracked & communicated to all.
 - It really helped in implementation of project on schedule with minimum loss & hassles.

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The Project

- The Plant



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The Project

- Milk Reception & Cooling Tank



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The Project

- Sugar & Flavor Mixing Tanks



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The Project

- Skid Mounted Pasteurizer Unit with Homogenizer.



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The Project

- Pasteurized Milk Packaging Module
- FFS Machine
- Holding Tank



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The Project

- Batch Pasteurizer for Yogurt, Mala etc.



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The Project:

- Cleaning In Place (CIP) System



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The Project

- Utility Systems
- Hot Water Boiler
- Ice Water Unit
- Water Treatment



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The Project

- Important Features
- Hand wash station
- Foot Bath Entry
- Floor wash station
- Simple Change-over manifold



Visitors & Approval

- Land O Lakes team from USA & South East Asia



Questions & Comments

Request to send your questions to
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