YOUR ULTIMATE SOLUTION FOR AGRICULTURAL TURN-KEY PROJECTS
Turn-Key Dairy Projects
Introduction

• This proposal is a follow up of a Request for Proposal (RFP) regarding the call FOR “Consultancy for the Analysis of feasibility of setting up of a mega-herd” dairy farming.
• The project calls for establishing dairy farms with a production capacity of 75,000 liters per day. Such an operation might require more than 2500 dairy cows and as many as 1400 heifers for replacement.
• The RFP also calls for analysis of other issues such as farming method, construction design, feed composition and production of rough and concentrated feed.
Introduction cont.

• RFP will include the design of the field crop operation for the production of forage and other rough feed.
• RFP will covers the selection of the dairy farming locations, farm size, milk processing, etc.
Vietnam Milk Production

- Over the last 10 years the Vietnamese government and the private sector has made efforts to modernize milk production.
- Substantial Mega dairies have been established, demonstrating modern farming methods and well-integrated operations.
- Average milk production has increased as a result.
- Large increase in processing capacity as well as demand for dairy products drive heavy investments in the sector.
Israel dairy industry

- Israel has a total annual output of approximately 1.3 million tons of cow milk.
- Milk is produced in about 750 dairy farms, spread countrywide, including in the extremely hot areas of the Rift Valley and the desert areas between the Dead Sea and the Red Sea.
- The Israeli dairy herd is comprised of 120,000 heads of the Israeli-Holstein breed, which has been bred by The Israeli Genetic Improvement System.
Israel dairy industry

• Nearly all of the cows are bred by artificial insemination (AI). The Israeli Herd Data book (IHD) receives and processes information from the official milk production control system, which includes 90% of the dairy cows in the country.

• The Israeli cow has the world’s highest milk yield per cow both in terms of milk volume and milk solids; reaching an average of 12,000 Kg. per cow per year (2011) with the average of 3.6% fat and 3.2% protein.
Israel dairy industry

- In addition to the very high milk production and despite the adverse climatic conditions, Israel milk production has one of the highest milk quality characteristics.
- While milk yield increased significantly, the average somatic cell has decreased by half over the last 15 years, reaching the average level of 200,000 CS per mili-liter.
Israel dairy industry

• Currently, more than 95% of Israeli dairy farms use TMR, either made in the farm or purchased in the local or in the regional Feed Center.
• TMR in the individual farm as well as in the large Feed Centers is done by skilled nutritionists and consultants, who visit periodically the farms and centers, and apply least-cost linear programming to compute well balanced rations.
Israel dairy industry

Israeli Dairy Farm Productivity

- Number of Dairy Farms
- Total Milk Production

Graph showing the increase in the number of dairy farms and total milk production from 1999 to 2010.
Israel dairy industry

Israel - Average Annual Yields per Cow

- Kg solids
- Kg Milk
- Protein
- Fat
- Milk

Graph showing the average annual yields per cow from 1939 to 2009 for protein, fat, and milk.
Israeli Dairy Farm Reform

- In 1999, a reform package was initiated in the Israeli dairy sector, which continued until 2007.

The two main aims of the reform are as follows:
- Encouraging dairy producers to become larger, more competitive and more efficient;
- Preventing pollution from dairy farms and protecting the country’s water sources and air pollution by upgrading cowsheds and establishing environmental infrastructure including manure and sewage treatment to reduce methane and CO2 pollution.
Israeli Dairy Farm Reform

• Green 2000 expert team was leading in the implementation of the dairy reform in Israel.
• This involved all dairy farming areas such new dairy design, environmental solutions, joining dairy farms, establishing of large dairy farms instead of small family farms and many other issues related to the reform.
Heat Stress Handling

- One of the greatest achievements of Israeli dairy farming in the last 10 years is keeping steady milk production all year around on national level.
- This achieved by cow cooling methods and the recognition of the importance of cow cooling.
- In Israel, cooling cow systems have become a standard practice.
- One of the world top experts in this field, Dr. Flamenbaum is one of the expert team on this mission.
Dairy Farm – Project Cycle

Planning

Licensing

Production

Transportation

Erection

Supervision
From the Field to the Supermarket

- Field crops
- Sheds and buildings
- Cattle importation
- Milking centers
- Feed centers
- Milk processing plants
Green 2000 brings an ADDED VALUE to each project we take part in. By implementing our systems and tools, we stay tuned to future needs and requirements.
Continuous Analysis of Crucial Data:

- Milk production, quality and quantity
- Animal health
- Fertility
- Genetics and reproduction
- Hardware efficiency
- Herd replacement strategy
- Application modules
Remote Management Platform

Farm A

Farm B

Farm C

Headqtr. Server

Farm X

Internet
YOUR ULTIMATE SOLUTION
FOR AGRICULTURAL TURN-KEY PROJECTS

THANK YOU FOR YOUR ATTENTION

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