Feed The Future India Triangular Training (FTF ITT) Program on Modern Dairy Technology and its Management
Date: 15 – 29th April, 2017 | Venue: National Dairy Research Institute, Karnal, India

ICAR-National Dairy Research Institute (NDRI)
Karnal-132001, Haryana State, India
http://www.ndri.res.in
ICAR - National Dairy Research Institute

The National Dairy Research Institute as country's premier Dairy Research Institution has developed considerable expertise over the last five decades in different areas of Dairy Production, Processing, Management and Human Resource Development. Information generated at the Institute and the services offered have contributed to the growth of Dairy Industry as a whole and well-being of millions of milk producers and consumers of milk and milk products. Realizing the challenging need of global Dairy Trade, the Institute is continuously working to develop its R&D and HRD programs to better serve the nation in terms of food security, employment generation, poverty alleviation and economic prosperity. Being the National Institute, it conducts basic and applied research with the objective to enhance animal productivity and also to develop cost effective technologies for the benefit of the teeming millions. The Institute also undertakes extension programs for transferring the know-how from the laboratory to the farmers’ fields.

Facilities at NDRI

- Livestock Research Centre with modern housing and shelters,
- Animal Health Complex and State-of-the Art Milking Parlour
- Animal Breeding Research Complex (ABRC) with Progeny tested bulls and frozen semen
- Farm Section with Fodder production facility
- Feed Mill for the Manufacture of Concentrate, mineral mixture and feed blocks
- Animal Biotechnology Centre (ABTC) with excellent
- Experiential Learning Lab/Business planning and development Unit/TBI
- State of art research laboratories
- Experimental Dairy and Model Dairy Plant
- National Referral Centre for Milk Quality & Safe
- Climate Resilient Centre
Introduction to the Training Program
Commercial farming in dairy production and processing has good potential for employment generation both in rural and peri-urban areas besides being a source of liquidity and insurance against crop failure. In other words, dairy provides employment throughout the year. Even more profits can be earned through dairying, depending upon the breeds of animal, managerial skills and marketing. Dairy farming can also be taken up as a main occupation around big urban centers, wherein the demand for milk is high. Modern and well established scientific principles, practices and skills should be used to obtain maximum economic benefits from dairy farming.

Objectives

- The main aim of the training program is to acquaint the participants with knowledge in principles, planning and technical approach for establishing commercial dairy farms, processing of milk and development of marketing network.
- Development of value chain in milk production, processing and marketing to minimize the marketing channels
- Establishment of linkage among the various stakeholders to safeguard the interest of producer as well as consumers.

Topics to be covered in Dairy Production

- Important Breeds of dairy suitable for commercial dairy farming
- Fodder production, preservation and feeding requirements of dairy animals, feed formulations and role of feed additives and supplements
- Utilization of farm waste
- Animal Health Management: Common disease of dairy animals, symptoms, prevention and vaccination
- Housing & shelter management of dairy animals: Designing and construction of shed, milking parlour and layout of dairy farms
Effective Disposal and Utilization of Dairy farm Waste
Quality milk production: Aspects of clean milk production handling and transportation of raw milk
Reproductive health management of dairy animals
Major reproductive problems of dairy animals and practices for improved reproductive efficiency

Topics to be covered in Dairy Processing
Chemical quality analysis of milk & milk products
Microbiological analysis of milk & milk products
Processing of market milk
Technology of heat & acid coagulated
Traditional dairy products
Technology of khoa & khoa based sweets
Technology of fat rich dairy products
Technology of cheese manufacturing
Technology of fermented milk processing
Packaging & labelling of dairy products
Whey utilization for product development
Maintenance and propagation of starter culture
Detection of adulterants & preservative
Utility management at dairy processing plant
Cleaning, sanitation and hygiene maintenance of dairy processing equipment
Ice cream and frozen dessert manufacturing
Specialized dairy products and prospects of value addition at producer’s level
Technology aspects of dairy By-products
Quick tests for checking adulteration in dairy products
Introduction to Milk Processing Equipment

Topics to be covered in Management
Financing linkages for dairy entrepreneurship
Costing of dairy products
Interaction with dairy equipment industries, commercial dairy farmers, processing units, SHG's and financial institution representatives

State of art model in dairy production, processing and management

Economic parameter and project proposal development of commercial dairy farm for sustainability

Marketing of Livestock Food Products: Status, Potential and Essentials of Business Startups

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