

**Feed The Future India Triangular Training (FTF ITT) Program  
on  
Management of Dairy Cooperatives**

**Date: 10 – 24<sup>th</sup> April, 2018 | 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 (NDRI)**

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

<b>Title</b>	Management of Dairy Cooperatives
<b>Date &amp; Venue</b>	10 - 24 April, 2018, National Dairy Research Institute, Karnal, Haryana, India
<b>Duration</b>	15 days
<b>Course Coordinator</b>	Dr. Gopal Sankhala, PS, NDRI

### **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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