Logo

106-E, Kamla Nagar, New Delhi-110007, India.
Tel: 91-11-23843955, 23845654, 23845886, +918800733955
Mobile: +91-9811043595
Email: npcs.ei@gmail.com, info@entrepreneurindia.co
Website: www.entrepreneurIndia.co

The Complete Technology Book on Dairy & Poultry Industries With Farming and Processing (2nd Revised Edition)

Code: NI62	**Format:** paperback
Indian Price: ₹1275	**US Price:** $125
Pages: 720	**ISBN:** 9789381039083
Publisher: NIIR PROJECT CONSULTANCY SERVICES	

Description

Dietary habits of people have changed over the last few decades. Growing consciousness for protein rich food has given an impetus to both the dairy industry and poultry farming. Today, the dairy industry is a large organized sector with both private and government participation whereas poultry farming has indicated a rapid growth of 20% in the past few decades as well. Poultry is one of the fastest growing segments of the agricultural sector in India today. The production of agricultural crops has been rising at a rate of 1.5 to 2 % per annum that of eggs and broilers has been rising at a rate of 8 to 10 % per annum. From a backyard hobby it has culminated into an industry. The venture has largely been entrepreneurial and poultry farmers prefer to target their efforts to breeding & broiler farming for sale of ready broilers or layer farming for eggs. Poultry is the second most widely eaten meat in the world, accounting for about 30% of meat production worldwide. Dairy plants process the raw milk they receive from farmers so as to extend its marketable life. India has only a few specialized dairy farms. It is the production that characterizes the dairy industry. India is the worlds highest milk producer and all set to become the worlds largest food factory. Dairying is an important source of subsidiary income to small/marginal farmers and agricultural labourers. The manure from animals provides a good source of organic matter for improving soil fertility and crop yields. Since agriculture is mostly seasonal, there is a possibility of finding employment throughout the year for many persons through dairy farming. Thus, dairy also provides employment throughout the year. The main beneficiaries of dairy programmes are small/marginal farmers and landless labourers. Developments in the dairy and poultry industries during the last decade have been important enough to bring out a considerable amount of materials

on dairy and poultry farming; processing of milk and poultry related products.
The major contents of the book are dairy farming, poultry production, breeding, fertility, forage grass and concentrates, cow behaviour and health, manufacture of butter and cheese, process measurements and controls, components of poultry diets etc. This book also describes about the feed manufacturing process, butter and cheese manufacturing processes with diagrams, housing system and management of broilers and more.
The first book of its kind which covers complete details of dairy and poultry farming, processing how to feed cows, birds in dairy and poultry, kind of diseases and their cure and other information related farming. This book will be an invaluable resource to dairy and poultry technology, institutions and for those who want to venture in this field.

Content

Properties of Milk
Specific Gravity
Density
Refractive Index
Viscosity
Surface Tension
Freezing Point
Heat Stability of Milk
Testing of Milk
Milk Sampling
Milk-fat
Adulteration of Milk
Urea
Ammonium Sulphate
Glucose
Freezing Point of Test
Bacteriology of Milk
Public Health Aspects of Milk and Milk Products
Detection of Bacterial Contamination
Use of Detergents for Cleaning of Utensils
Cleaning In-place (CIP)
Washing and Sterilization of Utensils
Judging the Quality of Milk
CIot-on-boilingTest.
Alcohol Test.
Methylene Blue Reduction Test
Processing of Milk
Cooling Media
Storage of Chilled Milk
Clarification of Milk
Homogenization
Standardization of Milk
Pasteurization
Holder Method.
High Temperature Short Time (HTST) Method.
Operation of the Plant.
Cold Storage
Uperization Process
Aseptic Filling Process
Sterilized Milk

Supply of Milk to Customers
Dispensing in Cans.
Dispensing in Bottles
Single Service Containers
Storage of Bottle Milk
Transport of Pasteurized Milk
Milk Products
Cream
Cream Separators
Pasteurization of Cream
Vacreation
Sterilized Cream
Curd (DAHI)
Starter Cultures
Butter
Desi Butter
Creamery Butter
Ghee
Prestratification Method
Manufacture of Butter-oil
Condensed Milk
Milk Powder
Infant Food
Weaning Food
Humanized Infant Food
Khoya
Ice-cream
Softy Ice-cream
Milk Shake
Lassi
Acidophilus Milk
Chhana
Cheese
Processed Cheese
Shrikhand
Lactose
Casein
Milk Supply Schemes
Indian Dairy Corporation
Operation Flood Project

Marketing of Milk and Milk Products
Research in Dairying
Indigenous Milk Products
Whey Protein Isolates
Dairy Engineering Research
2. Breeding
Breeds of Cattle
Lyre-Horned Grey Cattle
Kankrej
Kanwariya
Kherigarh
Malvi
Tharparkar
White or Light Grey Cattle With Coffin-Shaped Skulls
Bachaur
Gaolao
Hariana
Krishna Valley
Mewati
Nagauri
Ongole
Rathi
Animals with Heavy Built and Curly Horns
Dangi
Deoni
Gir

Nimari
Red Sindhi
Sahiwal
Mysore Breeds with Prominent Foreheads and Long Horns
Hallikar
Amritmahal
Khillari
Kangayam
Alambadi
Hilly Breeds
Ponwar
Siri
New Breeds

Karan Swiss
Karan Fries
Breeds of Buffaloes
Murrah
Bhadawari
Jaffarabadi
Surti
Mehsana
Nagpuri
Nili-Ravi
Herd Book
Eeonomic Zones
Temperate Himalayan Region
Dry Northern Region
Wet Eastern Region
Southern Region
Coastal Region
Improvement Programme
Performance Evaluation
Arttifical Insemination and Embryo Transfer Technology
Meat Potential
Economics of Dairy Farming
Animal Health
Feeding of Cattle
Mineral Matter
Nutritive Requirements of Dairy Cattle for Maintenance
Nutritive Requirements for Growing Animals
Requirements for Milk Production
Nutrient Requirements for Work Cattle
3. Breeding and Fertility
Inheritance
Systems of Breeding
Practical Application
Large-scale Breeding
Evaluating a Bull for AI
Choosing an AI Sire
The Oestrus Cycle
Heat Detection
Postpartum Interval
Conception Rate

Low Pressure (Vacuum Measurement): Units of vacuum
Temperature Measurement
Solid Rod Thermometer
Bimetallic Thermometer
Filled-System Thermometer
Liquid-in-Glass Thermometer
Pressure Thermometer
Thermal System Bulbs
Mechaical Flowmeters
Bellows-actuated Flowmeters
Measurement of Total Flow
Measurment of Liquid Level
Hydrostatic Pressure
Capacitance Level Gage
Weight Measurment
Controllers
Pneumatic Controllers
Controllers
Process Control
Transmitters
Flow Transmitter
Density Transmitter
Regulating Device
28. Physical Properties of Dairy Products
Density
Over-run
Boiling and Freezing Point
Refractive Index
Acidity and PH
Rheological Properties
Viscosity
Non-Newtonian Fluids
Food Texture
Surface Properties
Foaming
Thermal Properties of Foods
Specific Heat
Latent Heat
Thermal Conductivity
Thermal Diffusivity

Electrial and Dielectric Properties
Electric Conductance
Dielectric Properties
Changes in Milk and its Constituents
Changes During Storage
Oxidation of Fat
Oxidation of Protein
Lipolysis
Effect of Heat Treatment
Fat
Protein
Enzymes
Lactose
Vitamins
Minerals
29. Poultry Production
Common Poultry Breeds
American Class
Asiatic Class
Mediterranean Class
English Class
Indigenous Breeds
Karaknath
Genetic Principles
Quantitative Characters
Dominant and Recessive Characters
Chromosomes
Inheritance of Quantitative Traits
Objective of a Breeding Programme
Basis of Selection
Selection Methods
Mating Systems
Methods of Mating
Important Economic Traits in Poultry
Egg Production
Egg Weight
Egg Quality
Body Size
Conformation
Growth

Feed Efficiency
Fertility and Hatchability
Commercial Poultry Breeding Principles and Practices
Commercial Hybrid Chicken
Breeding Systems
Performance Testing of Commercial Crosses
Culling for Better Returns
Culling from Outward Appearance
Culling on the Basis or Moulting
Culling on the Basis of Pigmentation
Hatching of Eggs
Incubation
Testing of Incubated Eggs
Hatchery Management
Sexing of Chicks
Poultry Management
Brooder Management
Grower Management
Layer Management
Male Management
Housing for Poultry
Feeding of Poultry
Minerals
Vitamins
Feed Ingredients
Conventional Poultry Feeds
Non-conventional Poultry Feeds
Energy Sources
Vegetable Protein Sources
Animal Protein Sources
Economising Feeds Cost
Processing, Preservation and Marketing
Composition and Nutritive Value of Egg
Maintenance of Shell Egg Quality
Grading
Preservation of Shell Eggs
Preservation of Liquid Eggs
Egg Marketing
Distribution Channel
Marketing Agencies

36. Housing System andManagement of Broilers
Housing Needs of Broilers
Temperature
Heat Production
Heat Loss
Heat loss
For Winter
General Characteristics of A Broiler House
Location & Salient Features of A Broiler Farms
Grower Equipments
Broiler Management
Location of the Farm
Broiler Chicks
Systems of Broiler Production
Management Procedure
Litter and litter management
Temperature
Space Requirement
Brooder Guards
Supply of Water to Chicks
Supply of Feed to Chicks
Light Management of Broilers
Light System for Broilers
Some Important Points Regarding Growth, Feed
Consumption and Efficiency of Feed Conversion in Broilers
37. Composition of Layer Feeds
Phase Feeding of Laying Hens
38. Composition of Breeder Feeds
39. Modern Hatchery for Commercial Chick Production
Location and Size of Hatchery
Administrative Block
Hatchery Building
Egg Receiving, Cleaning and Fumigation Room
Fumigation Chamber
Storage Room
Incubator Room
Hatching Room
Sexing Room
Vaccination, Packing and Dispatch Room
Washing Room

About NIIR Project Consultancy Services (NPCS)

NIIR Project Consultancy Services (NPCS) is a reliable name in the industrial world for offering integrated technical consultancy services. Its various services are: Pre-feasibility study, New Project Identification, Project Feasibility and Market Study, Identification of Profitable Industrial Project Opportunities, Preparation of Project Profiles and Pre-Investment and Pre-Feasibility Studies, Market Surveys and Studies, Preparation of Techno-Economic Feasibility Reports, Identification and Selection of Plant and Machinery, Manufacturing Process and/or Equipment required, General Guidance, Technical and Commercial Counseling for setting up new industrial projects and industry. NPCS also publishes various technology books, directories, databases, detailed project reports, market survey reports on various industries and profit making business. Besides being used by manufacturers, industrialists, and entrepreneurs, our publications are also used by Indian and overseas professionals including project engineers, information services bureaus, consultants and consultancy firms as one of the inputs in their research.

NIIR PROJECT CONSULTANCY SERVICES
106-E, Kamla Nagar, New Delhi-110007, India.
Tel: 91-11-23843955, 23845654, 23845886, +918800733955
Mobile: +91-9811043595
Email: npcs.ei@gmail.com, info@entrepreneurindia.co
Website: www.entrepreneurIndia.co