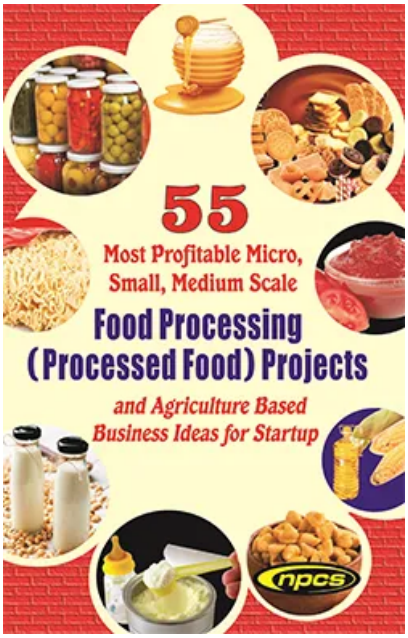
Entrepreneur India

106-E, Kamla Nagar, New Delhi-110007, India.
Tel: 91-11-23843955, +91 9097075054
Mobile: +91-9097075054
Email: npcs.ei@gmail.com, info@entrepreneurindia.co
Website: www.entrepreneurIndia.co



55 Most Profitable Micro, Small, Medium Scale Food Processing (Processed Food) Projects and Agriculture Based Business Ideas for Startup

Code	NI316
Format	paperback
Indian Price	₹0
US Price	$0
Pages	392

ISBN	9789381039908
Publisher	NIIR PROJECT CONSULTANCY SERVICES

Description

Food processing is a way or technique that is used to convert raw foods into well-cooked and well preserved eatables for both humans and animals. Food processing uses raw, clean, harvested crops or slaughtered and butchered animals and turns these into food products for daily consumption. A number of products are nutritious, easy to cook and have a long shelf life. They are packed in an attractive manner and are highly marketable.
The food processing industry plays a vital role in the economy of any country because it links agriculture to industry. The food processing industry is responsible for diversification of agriculture, improvement of value-added opportunities, and creation of excess that can be exported. The food processing industry of India is one of the largest in the world in terms of manufacture, use, export, and development. The sector has immense potential to contribute to growth and employment opportunities of the country.

Rapid globalization and development of economy has taken a toll on the lives of consumers, particularly those residing in urban areas. Employment growth and increased work pressure in organizations leaves consumers with little time for personal care. Additionally, more product offerings by food companies and marketing on a large scale has altered people’s appetite- they demand more and more processed food items every day. These are some of the reasons for the steady growth of food processing industry in India in the past few years. Some of the biggest companies making their presence felt in the Indian market are Unilever, Dabur, Nestle, Nissin, Cadbury’s, Kelloggs’, Godrej, ITC, Britannia, Kohinoor Foods Ltd., Mother Dairy, Pepsico India, Marico Ltd, Patanjali, MTR Foods etc.

Food processing industry is of enormous significance for any country's development because with the changing lifestyle, there has been a consistent increase in preference and demand for packaged foods amongst the population. These can be seen as a great opportunity by the packaging companies. The agricultural strength amalgamated with a various other factors like competent market price and favorable government policies have further aggrandized the food packaging sector.

The Major Contents of the are Book Soy Flour & Milk, Starch Derivatives, Saccharin, Tomato Paste, Edible Corn Oil, Malt, Instant Noodles, Garlic Oil and Powder, Cattle Feed, Banana Wafers, Biscuits, Bread, Candy, Chocolates, Potato Chips, Rice Flakes

(Poha), Corn Flakes, Baby Cereal Food, Fruit Juice, Milk Powder, Paneer, Papad, Ghee, Extruded Food (Kurkure Type), Instant Tea, Jam & Jelly, Khakhra, Soft Drinks, Spices, Sweet Scented Supari, Cake & Pastry, Banana Chips, Papad, Besan, Pickles, Ice-Cream Cones, Honey, Flour Mill, Tutti-Fruitti, Confectionery, Noodles, Ice Candy, Namkeen, Vermicelli, Mango Pappad (Aam Papad), Chilli Powder, Popcorn, Supari Chips, Revadi and Gazak, Mava, Tomato Sauce and Ketchup, Ice Cream, Baking Powder, Moong Dal Bari, Packaged Drinking Water With Pet Bottles, Food Packaging & Labelling, Good Manufacturing Practices in Food Industry, Manufacturing Process, Process Flow Diagrams, Addresses of Plant & Machinery Suppliers, Photographs of Machineries.

It will be a standard reference book for professionals, entrepreneurs, agriculturists, agriculture universities, food technologists, those studying and researching in this important area and others interested in the field of Food products manufacturing.

Content

1. INTRODUCTION

Reasons for Growth in Demand of Processed Food in India
Growth Drivers
Future of Packaged Food Industry in India: Drivers and Barriers
Importance of Food Packaging in Food Industry
Food Labeling

2. SOY FLOUR & MILK

Physical Characteristics & Chemical Composition of the Soybean
Chemical Composition
Representative Proximate Composition
Uses
Raw Material
For Soy Flour
For Soy Milk
Process Description
1. Soy Flour Process Description
2. Soy Milk Process Description
Process Flow Diagram
Soy Flour
Machinery Required for Soy Flour
Soy Milk

Machinery Required for Soy Milk

3. STARCH DERIVATIVES

Uses
Some Important Definitions
Raw Material
Process Description
General Process Flow for Starch-Derived
Sweeteners (Corn/Glucose Syrups, High Fructose Syrups, Dextrose, Fructose, Maltodextrins and Syrup Solids)
1. Glucose Syrup
Dextrose Syrup
Sorbitol

4. SACCHARIN

Properties of Saccharin
Uses in Foods and Other Products
Process Description
Chlorosulfonic Acid Synthesis Process
Sulfonation
Amination and Refining
Oxidation Process
Concentration and Crystallization
Drying and Packing Process
Recovery of Oxidizing Agent and Catalyst
Raw Material
Flow Diagram
Machinery Required

5. TOMATO PASTE

Uses
Raw Material Requirements
Raw Material
Process Description
Receiving
Sorting
Juice Extraction
Evaporation

Aseptic Filling
Machinery Required

6. EDIBLE CORN OIL

Process Description
Required Machinery

7. MALT

Standard Malt and Specialty Malt
Barley Conditioning
Malting
Malt Treatment
Process Flow Diagram
Machinery Required

8. INSTANT NOODLES

Manufacturing Process
Processing and Classification of Instant Noodles
Machinery Required

9. GARLIC OIL AND POWDER

Composition
Uses
Process Description
Process Flow Diagram
Machinery Required

10. CATTLE FEED
Raw Materials for Concentrate Feeds
Process Description
Reception of Raw Material
Storage of Raw Materials
Blending
Grinding
Process Flow Diagram
Machinery Required

11. BANANA WAFERS

Manufacturing Process
Description of Manufacturing Process
Detail Process
Process Flow Diagram

12. BISCUITS

Uses & Applications
Basic Raw Material for Biscuits
Manufacturing Process
Manufacturing Process Flow Diagram

13. BREAD

Properties
Raw Material
Formulation of Bread
Manufacturing Process
Process Flow Sheet

14. CANDY

Uses of Candy
Raw Material for Candy
Sugar
Corn Syrup/Glucose Syrup
Water
Properties of High-Boiled Candy
Candy Manufacturing Process
Process Flow Diagram

15. CHOCOLATES

Uses
Composition of Fermented Cocoa Beans
Raw Material
Sweet Dark Chocolate
Semi-Sweet or Bittersweet Dark Chocolate
Milk Chocolate

White Chocolate
Formulations
Dark Chocolate
Milk Chocolate
Manufacturing Process
1. Roasting and Winnowing the Cocoa
2. Grinding the Cocoa Nibs
3. Blending Cocoa Liquor and Molding Chocolate
Milk Chocolate
White Chocolate
Plain Dark Chocolate
Process Flow Diagram

16. POTATO CHIPS

Composition of Fresh & Fried Potato
Uses & Application Manufacturing Process
(1) Sorting, Cleaning & Washing
(2) Slicing and Washing
(3) Drying of Slices
Chip Frying
Packaging
Process Flow Diagram

17. RICE FLAKES (POHA)

Uses & Applications Composition of Rice
Manufacturing Process
Process Flow Diagram

18. CORN FLAKES

Uses and Applications Properties
Manufacturing Process
Grain Cleaning Section
Corn Grit Section
Corn Flake Section
Process Flow Diagram

19. BABY CEREAL FOOD

Uses & Applications
Properties of Cereal Food
Infant Cereals Manufacturing Process
Raw Materials
Wet Mixing Plant
Packing
Infant Milk Manufacturing Process
- Mixing Ingredients

- Pasteurization
- Homogenization
- Standardization
- Heat Treatment or Sterilization
- Dry Blending

Packaging
Muesli Manufacturing Process
Ingredients
Process Flow Diagram

20. FRUIT JUICE
Classification of Fruit Juice
Uses & Applications
Properties
Raw Material Requirement
Manufacturing Process
Packing
Storage
Process Flow Diagram

21. MILK POWDER

Uses of Milk Powder
Composition of Milk-Powder
Property of Milk Powder
Milk Powder Production Process
- Separation/ Standardization
- Preheating
- Evaporation
- Spray Drying
- Packaging and Storage

Process Flow Diagram

22. PANEER

Various Uses
Functional Properties
Classification of Cheese
Composition of Paneer
Manufacturing Process
Process Flow Diagram

23. PAPAD

Uses & Applications
Formulation for Papad
Manufacturing Process
Process Flow Diagram

24. GHEE

Uses of Ghee
Nutritional benefits of Ghee
Properties of Ghee
n Physical Properties
n Chemical Properties
Composition of Ghee
Process
Manufacture of Ghee

25. EXTRUDED FOOD (KURKURE TYPE)

Properties of Kurkure Type Products
Formulation of Kurkure
Manufacturing Process
Manufacturing Process Flow Diagram

26. INSTANT TEA
Uses
Composition of Tea
Properties
Manufacturing Process
Process Flow Diagram

27. JAM & JELLY
Essential Ingredients
Formulation for Jams
The Manufacturing Process for Jam & Jelly
Inspection
Cleaning, Crushing and Chopping
Pasteurizing the Fruit
Cooking the Jam and Jelly
Filling the Jars
Labeling and Packaging
Process Flow Diagram for Jam Process Flow Diagram for Jelly

28. KHAKHRA
Uses and Applications
Nutrition Facts of Khakhra
Manufacturing Process of Khakhra
Process Flow Diagram

29. SOFT DRINKS
Ready-to-Drink Products
Concentrated Soft Drinks
Properties
Components of a Soft Drink
Manufacturing Process
Packing
Cold-filling
Process Flow Diagram

30. SPICES
Uses & Applications
General Manufacturing Procedure
Process Flow Diagram

31. SWEET SCENTED SUPARI

Uses and Applications
Properties
Formulation of Scented Supari
For Scented Coloured Supari
Process Description
Process Flow Diagram

32. CAKE & PASTRY

Introduction
Market Opportunities
Features
Raw Material
Cake
Pastry
Bakery Moulds
Requirements
Wheat Flour
Eggs
Milk Power
Ghee
Making Process
Flow Chart of Bakery

33. BANANA CHIPS

Introduction
Market Potential
Demand and Supply
Marketing Strategy
Selling and Distribution Overheads
Ingredients
How to make Banana Chips
Process Flow Diagram
Equipments
Requirements
Banana
Aluminum Utensils
Chips Cutter Electric Motor
Sealing Machine
Weighing Scale

34. PAPAD

Raw Materials
Manufacturing Process
Main Machinery and Equipments
Papad Making Machine

Flour Kneading Machine

35. BESAN

Raw Materials
Manufacturing Process
Cleaning
Conditioning
Milling
Finishing
Main Machinery and Equipments
Gram Dal
Pulveriser Machine

36. PICKLES

Product
Raw Materials
Manufacturing Process
Machinery and Equipments
Pickles
Cap Sealing Machine
Serrated Slicer

37. ICE-CREAM CONES

Raw Materials
Manufacturing Process
Machinery Required
Ice-cream Cones
Cone-Making-Machine
Storage Racks

38. HONEY

Main Raw Materials
Manufacturing Process
Main Machinery and Equipments
Honey
Honey Stirrer
Weighing Balance

Heating Equipments
39. FLOUR MILL

Market Potential
Raw Materials
Manufacturing Process
Machinery and Equipments
Flour
Roller Mill Body
Weighting Machine

40. TUTTI-FRUITTI

Raw Materials
Production Process
Main Machinery and Equipments
Peeling Machine
Stainless Soaking Tanks

41. CONFECTIONERY

Raw Materials
Manufacturing Process
Main Machinery and Equipments
Confectionery
Chips Cutting Machine
Balance Scale

42. NOODLES
Raw Materials
Manufacturing Process
Main Machinery and Equipments
Noodles
Noodle Making Machinery

43. ICE CANDY

Manufacturing Process
Raw Materials
Main Machinery and Equipments
Complete Ice-Candy Machine

Churner
Ice-Cream Mixer

44. NAMKEEN

Raw Materials
Manufacturing Process
Main Machinery and Equipments
Namkeen
Namkeen Making Machine
Hydroextractor
45. VERMICELLI

Raw Materials
Manufacturing Process
Main Machinery and Equipments
Vermicelli
Vermicelli Making Machine
Mixing Machine
Weighing Balance

46. MANGO PAPPAD (AAM PAPAD)

Raw Materials
Manufacturing Process
Main Machinery and Equipments
Aam Papad
Mango Peeler Machine
Mixer
Storage Tanks

47. CHILLI POWDER

Raw Material
Manufacturing Process
The Process Flow Chart is as under
Main Machinery and Equipments
Polythene Bags
Red Chilli
Mixer

48. POPCORN

Raw Materials
Manufacturing Process
Main Machinery and Equipments
Popcorn
Popping Machine
Sealing Machine

49. SUPARI CHIPS

Raw Materials
Manufacturing Process
Main Machinery and Equipments
Supari Chips
Supari-Chips Cutting Machine
Balance

50. REVADI AND GAZAK
Raw Materials
Manufacturing Process
Main Machinery and Equipments
Revadi and Gazak
Big Pans
Utensils

51. MAVA

Raw Material
Manufacturing Process
Main Machinery and Equipments
Milk
Mava Making Machine
Milk Cans
Physical Balance

52. TOMATO SAUCE AND KETCHUP

Raw Materials
Manufacturing Process
Main Machinery and Equipments

Tomato Sauce
Tomato
Tomato Charging Machine
Boiler Machine

53. ICE CREAM

Raw Materials
Manufacturing Process
Main Machinery and Equipments
Ice Cream
Mixer
Ice Cream Chiller

54. BAKING POWDER

Raw Materials
Manufacturing Process
Main Machinery and Equipments
Baking Powder Ribbon Blender Sieving Set

55. MOONG DAL BARI

Raw Materials
Manufacturing Process
Main Machinery and Equipments
Moong Dal
Moong Dal Bari
Utensils
Mixer

56. PACKAGED DRINKING WATER WITH PET BOTTLES

Weight Loss
Maintain Bone Health
Lower Blood Pressure and LDL Cholesterol
Reduce Chances of Kidney Stone
Process of Manufacture

57. FOOD PACKAGING & LABELLING

Importance of Packaging
Promotion
Facilitates Purchase Decision
Differentiation
Protection/ Preservation
Chemical Protection
Biological Protection
Different Types of Food Packaging
Custom Display
Plastic
Aluminum
Cardboard
Other Types of Packaging
Food Labeling
Purpose
Types of Labeling in Marketing
Branded Product Labels
Eco or Information Labels Other Product Label Types

58. GOOD MANUFACTURING PRACTICES IN FOOD INDUSTRY

Food Industry Standards
GMP Practices for Food
(i) Design and Facilities
Location
(ii) Premises and Rooms
Design and Layout
(iii) Internal Structures & Fittings
(iv) Equipment
(v) Containers for Waste and Inedible Substances
Facilities
(i) Water Supply
(ii) Drainage and Waste Disposal
(iii) Cleaning
(iv) Personnel Hygiene Facilities and Toilets
(v) Temperature Control
(vi) Air Quality and Ventilation
(vii) Lighting
(viii) Power Back up
(ix) Storage
Control of Operation

(i) Time and Temperature Control
(ii) Control of Other Specific Process Steps
(iii) Specifications
Microbiological Cross Contamination
Physical and Chemical Contamination
Incoming Materials Requirements
Packaging
Water
(i) Water, Ice and Steam in Contact with Food
(ii) Water, Ice and Steam not in Contact with Food
(iii) Water pipes & Storage Tanks
(iv) Management and Supervision
Documentation and Records
Product Recall & Traceability
Storage
Maintenance and Sanitation
(i) Pest Control
(ii) Waste Management
(iii) Personal Hygiene
Quality Control
Transportation
Product Information and Consumer Awareness
Competence & Training
Temporary/Mobile Premises, Vending Machines

59. PHOTOGRAPHS OF MACHINERY WITH SUPPLIERS CONTACT DETAILS

Washing and Peeling Machine
Paste Making Machine
Slicer Machine
Paste Filling Machine
Steam Jacketted Vesssel
Ribbon Blendor
Pulverizer
Bucket Elevator
Powder Dryer Machine
Boiler
Oil Storage Tank
Pneumatic Conveying System
Material Handling Conveyors
Air Compressor

R.O. Plant
Distillation Unit
Fruit Pulper
Liquid Filling Machine
Drum Type Blancher
Fruit Mill
Spray Machine
Weighing Machine
Packaging Machine
Oil Extraction Machine
Pollution Control Equipment
Reverse Osmosis System
Pump
Hammer Mill
Redler Conveyors
Oil Filter Machine
Blending Tanks
Sealing Machine
Carton Packaging Machine
Pouch Packaging Machine

60. SAMPLE PLANT LAYOUTS

About Niir

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.