

Entrepreneur India

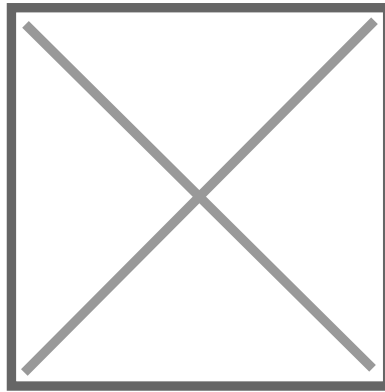
106-E, Kamla Nagar, New Delhi-110007, India.

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, Kellogg's, 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 Vessel
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.