

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

55 Most Profitable Micro, Small and Medium Scale Food Processing (Processed Food) Projects and Agriculture Based Business Ideas for Startup (2nd Edition)

Code: NI335	Format: paperback
Indian Price: ₹1495	US Price: \$150
Pages: 384	ISBN: 9788194737995
Publisher: National Institute of Industrial Research	

Description

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

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 Book are Soy Flour & Milk, Banana Powder, Ready to Eat Food (Vegetable Pulao, Dal Makhani, Palak, Rajmah, Potato Peas, Mutter Mushroom), Tomato Paste, Edible Corn Oil, Energy Bar, Instant Noodles, Garlic Oil and Powder, Freeze Dried Vegetables, 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, Onion Powder, Cake & Pastry, Garlic Powder, Potato Powder, Besan, Pickles, Ice-Cream Cones, Honey, Flour Mill, Tutti-Fruitti, Confectionery, Chocos (Ready to Eat Breakfast Cereal Food), Ice Candy, Namkeen, Vermicelli, Mango Pappad (Aam Papad), Chilli Powder, Popcorn, Beer Plant, 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, BIS Specifications, Photographs of Machinery With Suppliers Contact Detail, Sample Plant Layouts.

A total guide to manufacturing and entrepreneurial success in one of today's Food Processing Business. This book is one-stop guide to one of the fastest growing sectors of the Food and Agriculture Based Business, where opportunities abound for manufacturers, retailers, and entrepreneurs. This is the only handbook for commercial production ideas of Micro, Small and Medium Scale Food Processing Businesses. It serves up a feast of how-to information, from concept to purchasing equipment.

Content

Table of Contents

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. BANANA POWDER

Banana Powder Manufacturing

Machinery Required

4. READY TO EAT FOOD (VEGETABLE PULAO,

DAL MAKHANI, PALAK, RAJMAH,

POTATO PEAS, MUTTER MUSHROOM)

Ready to Eat Processing Technology

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. ENERGY BAR

Advantages

Manufacturing Process

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. FREEZE DRIED VEGETABLES

Applications of Freeze Drying

Advantages of Freeze-Drying

Manufacturing Process

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. ONION POWDER

Benefits of Onion Powder

Manufacturing Process:

Machinery Required

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. GARLIC POWDER

Uses

Manufacturing Process

Machinery Required

34. POTATO POWDER

Uses of Potato Powder

Manufacturing Process

Washing/Sorting/Destoning & Grading of
Potatoes

Peeling/Second Washing

Slicing

Blanching and Cooling

Cooking & Cooling

Potato Mash Making

Potato Powder

Packaging

Machinery Required

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-FRUTTI

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. CHOCOS (READY TO EAT BREAKFAST CEREAL FOOD)

Chocos Processing

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. BEER PLANT

Raw Materials
Manufacturing Process
Machinery Required
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. BIS SPECIFICATIONS

60. 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
61. SAMPLE PLANT LAYOUTS

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