

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

Author: Ajay Kumar Gupta

Format: Paperback

ISBN: 9788194737995

Code: NI335

Pages: 384

Price: Rs. 1,495.00 US\$ 39.95

Publisher: National Institute of Industrial Research

Usually ships within 5 days

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.

Contents

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 PAPPAD)
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

NIIR PROJECT CONSULTANCY SERVICES (NPCS) is a reliable name in the industrial world for offering integrated technical consultancy services. NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.

Our various services are: Detailed Project Report, Business Plan for Manufacturing Plant, Start-up Ideas, Business Ideas for Entrepreneurs, Start up Business Opportunities, entrepreneurship projects, Successful Business Plan, Industry Trends, Market Research, Manufacturing Process, Machinery, Raw Materials, project report, Cost and Revenue, Pre-feasibility study for Profitable Manufacturing Business, Project Identification, Project Feasibility and Market Study, Identification of Profitable Industrial Project Opportunities, Business Opportunities, Investment Opportunities for Most Profitable Business in India, Manufacturing Business Ideas, Preparation of Project Profile, Pre-Investment and Pre-Feasibility Study, Market Research Study, Preparation of Techno-Economic Feasibility Report, Identification and Section of Plant, Process, Equipment, General Guidance, Startup Help, Technical and Commercial Counseling for setting up new industrial project and Most Profitable Small Scale Business.

NPCS also publishes various process technology, technical, reference, self employment and startup books, directory, business and industry database, bankable detailed project report, market research report on various industries, small scale industry and profit making business. Besides being used by manufacturers, industrialists and entrepreneurs, our publications are also used by professionals including project engineers, information services bureau, consultants and project consultancy firms as one of the input in their research.

Our Detailed Project report aims at providing all the critical data required by any entrepreneur vying to venture into Project. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line.

NIIR PROJECT CONSULTANCY SERVICES , 106-E, Kamla Nagar, New Delhi-110007, India. **Email:** npcs.india@gmail.com **Website:** NIIR.org

Wed, 22 Mar 2023 20:41:56 +0530