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

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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.

#### 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

Sov 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

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

## 13. BREAD

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Formulation of Bread
Manufacturing Process
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Raw Material for Candy
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Corn Syrup/Glucose Syrup
Water
Properties of High-Boiled Candy
Candy Manufacturing Process
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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** 

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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** 

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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** 

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Various Uses
Functional Properties
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Composition of Paneer
Manufacturing Process

**Process Flow Diagram** 

#### 23. PAPAD

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Manufacturing Process

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The Manufacturing Process for Jam & Jelly

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Cooking the Jam and Jelly

Filling the Jars

Labeling and Packaging

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Ready-to-Drink Products

Concentrated Soft Drinks

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Components of a Soft Drink

Manufacturing Process

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Cold-filling

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**Uses & Applications** 

General Manufacturing Procedure

**Process Flow Diagram** 

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For Scented Coloured Supari
Process Description
Process Flow Diagram

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Market Opportunities
Features

Raw Material

Cake

**Pastry** 

**Bakery Moulds** 

Requirements

Wheat Flour

Eggs

Milk Power

Ghee

**Making Process** 

Flow Chart of Bakery

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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

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Raw Materials
Manufacturing Process
Main Machinery and Equipments
Papad Making Machine
Flour Kneading Machine

Raw Materials
Manufacturing Process
Cleaning
Conditioning
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Manufacturing Process
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Manufacturing Process
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Ice-cream Cones
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Honey Stirrer
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Machinery and Equipments
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Roller Mill Body
Weighting Machine

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Manufacturing Process
Main Machinery and Equipments
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Complete Ice-Candy Machine
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Raw Materials
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Namkeen
Namkeen Making Machine
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Raw Materials
Manufacturing Process
Main Machinery and Equipments
Vermicelli
Vermicelli Making Machine
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Red Chilli
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Manufacturing Process
Main Machinery and Equipments
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## 49. SUPARI CHIPS

Raw Materials
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Supari Chips
Supari-Chips Cutting Machine
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Main Machinery and Equipments
Revadi and Gazak
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Raw Material
Manufacturing Process
Main Machinery and Equipments
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**Raw Materials** 

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

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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

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