# Profitable Small Scale Industries- Money making Business Ideas for Startup (when you don't know what industry to start)-2nd Revised Edition

Author: NPCS Board of Consultants & Engineers

**Format**: Paperback **ISBN**: 9789381039922

Code: NI187 Pages: 520

**Price: Rs.** 975.00 **US\$** 25.95

Publisher: NIIR PROJECT CONSULTANCY SERVICES

Usually ships within 5 days

Micro, Small & Medium Enterprises (MSME) have been playing an important role in the overall economic development of a country like India, where millions of people are unemployed or underemployed. The economic development of any country primarily depends upon the establishment of industries. MSME sector comprises 95 per cent of the total industrial units in the country.

The hunt for funding has been the bane of an entrepreneur's existence from times of yore. Many abandon their dream to build, create, and innovate in the face of this difficult struggle without realising that a good business idea will eventually pool in the bounty-full once it has secured a place in the market. Your idea will bring you your company, your company will bring you the people, and the people will bring you the market. A good idea has no monetary value, just a whole lot of bursting potential. Today, the World's most successful entrepreneurs like Dhiru Bhai Ambani and Karsanbhai Patel – Man behind NIRMA may hold the possibility of building pyramids out of notes, but none of them started at the top of the ladder. Facebook was created out of a Harvard dorm room at minimal cost and Microsoft was formed two years after Gates decided to drop out of college.

For an entrepreneur starting out, it makes good business sense to avoid ideas that require high capital investment in equipment, land, etc. Venturing into the manufacturing business requires to divide time and effort between making business plan, creating the product, and selling. It is best to venture into product areas that requires small to medium investment, which can be returned within few years. If one want to start off on his own, this book provides some manufacturing business ideas with small and medium investment.

The major contents of the book are India Government Loan Schemes for Small Scale Businesses, Government Support for Innovation and Entrepreneurship in India, Pradhan Mantri Mudra Yojana, Packaging and Labeling, Products Packaging, Marketing, Onion Dehydration, Garlic Dehydration, Onion Pickle, Onion Chutney, Garlic Oil, Onion Powder, Ginger Oil, Ginger Powder, Ginger Paste, Tomato Pulp, Tomato Paste, Tomato Ketchup, Tomato Powder, Disposable Blood Bags, Disposable Masks, Disposable Surgical Catheters, Disposable Plastic Syringes, Plastic Cups, Disposable Banana Leaf Plate, Facial Tissue & Baby Wet Wipes, Urea Formaldehyde Resin Adhesive, Toothpaste Production, Gypsum Board, Surgical Absorbent Cotton, Glass Fibre, Complex Fertilizers, Activated Carbon from Wood, Biscuits, Candy, Chocolates, Milk Powder, Instant Noodles, Khakhra, Soft Drinks, Spices and Sample Plant Layouts.

If you ever had an idea that you want to turn into a profitable business endeavor, this book will be a mile stone for you.

# **Contents**

### 1. INTRODUCTION

Characteristics of Small-Scale Industries

Objectives of Small Scale Industries

Advantages of Small Scale Industries

Growth of Small Scale Industries

Steps to Starting a Business

- 1. Identify Your Business Opportunity
- 2. Build a Business Plan
- 3. Find Start-up Money
- 4. Name Your Business
- 5. Choose a Business Structure
- 6. Get Your Business License and Permits
- 7. Set Up & Determine Your Business Location
- 8. Get Business Insurance
- 9. Create an Accounting System

Registration of Small Scale Industries

Two Types of Registration are done in all States

Procedure for Registration

How to Apply

Procedure

Step 1: Provisional Small Scale Industry (SSI) Registration

Benefits of Provisional SSI Registration

Step 2: Start the Business

Step 3: Apply for Permanent SSI Registration

2. INDIA GOVERNMENT LOAN SCHEMES FOR

SMALL SCALE BUSINESSES

List of Government Loan Schemes for Small Business in India

- 1. The Credit Guarantee Fund Scheme for Micro and Small Enterprises
- 2. Credit Link Capital Subsidy Scheme for Technology Upgradation
- 3. Small Industries Development Bank of India (SIDBI)
- 4. National Small Industries Corporation Limited (NSIC)
- 5. National Bank for Agriculture and Rural Development (NABARD)
- 6. Market Development Assistance Scheme for MSMEs
- 7. Technology and Quality Upgradation Support to MSMEs
- 8. Mini Tools Room and Training Centre Scheme
- 9. MUDRA Loan
- 3. GOVERNMENT SUPPORT FOR INNOVATION

AND ENTREPRENEURSHIP IN INDIA

4. PRADHAN MANTRI MUDRA YOJANA

Product / Offerings of MUDRA

Pradhan Mantri MUDRA Yojana (PMMY)

Micro Credit Scheme

Refinance Scheme for Banks

Women Enterprise Programme

Securitization of Loan Portfolio

Purpose of MUDRA Loan

Transport Vehicle

Community, Social & Personal Service Activities

Food Products Sector

Textile Products Sector / Activity

Business Loans for Traders and Shopkeepers

**Equipment Finance Scheme for Micro Units** 

Activities Allied to Agriculture

Eligibility - Who are Eligible to Avail Loan Under Mudra Scheme?

Interest Rates of Mudra Bank Loan - Interest Rate

How to Apply for Mudra Loan - Process of Receiving Currency Loans

Step 1: Gathering Information and Choosing the Right Bank

Step 2: Preparing Documents and Submitting Applications

Checklist for Mudra Loan (Documents Required)

How to Apply for Bank Mudra Loan

Whom to Contact for Assistance?

5. PACKAGING AND LABELING

Functions of Packaging

6. PRODUCTS PACKAGING

Introduction

**Definition of Food Packaging** 

Functions of Packaging Material

Packaging Materials for Tomato and its Products

Packaging of Tomato

Flexible Packaging

Forms of Flexible Packaging

Manufacturing Techniques

Plastics in Food Packaging

Use of Plastics in Food Packaging

Types of Plastics Used in Food Packaging

Types of Plastic Used in Packaging

Polyethylene

Polypropylene (PP)

Polyethylene Terephthalate (PET or PETE)

Polyethylene Naphthalene Dicarboxylate (PEN)

Flexographic Printing

**Digital Printing** 

Printing and Labelling of Rigid Plastic Containers

In-mould Labelling

Labelling

**Dry Offset Printing** 

Silk Screen Printing

Heat Transfer Printing

Glass and Glass Container Manufacture

Melting

**Container Forming** 

**Design Parameters of Glass Containers** 

Surface Treatments

Hot End Treatment

Cold End Treatment

Low-Cost Production Tooling

Container Inspection and Quality

Conclusion

Precautions during Packing

7. MARKETING

**Functions of Marketing** 

**Promotional Techniques** 

The Product Concept

Some Characteristics of Market Segmentation

Organization for New-Product Development

**Developing New Products** 

Planned Obsolescence

**Product Line Relationships** 

**Product Features** 

The Sales Process

8. ONION DEHYDRATION

**Dehydrated Onion** 

Onion Varieties Suitable for Dehydration

Uses of Dehydrated Onions

**Dehydration Practices for Onion** 

Solar Drying

Convective Air Drying

Fluidized Bed Drying

Microwave Drying

Infra Red Drying

Vacuum Drying

Freeze Drying

Osmotic Dehydration

Onion Dehydration Process

**Processing Steps** 

Power Production and Energy Requirements

9. GARLIC DEHYDRATION

Drying

Methods of Drying

- 1. Hot Air Drying
- 2. Solar and Open Sun Drying

Experimental Setup

Design

Raw Material and Sample Preparation

Washing

Drying Process Flow Chart of Dehydrated Garlic

Equipment/Apparatus Used

Measurement of Variables

Air Temperature and Relative Humidity

Air Velocity

Solar Radiation

Initial Moisture Content (IMC)

Moisture Content during Drying Experiment

Equilibrium Moisture Content (E.M.C.)

Moisture Ratio (M.R.)

Drying Rate (D.R.)

Average Drying Rate (A.D.R.)

Quality Evaluation of Dehydrated Garlic

Rehydration Ratio, Coefficient of Rehydration

Comparison between Solar and Open Sun Drying

Freeze Drying

Fluidized Bed Drying

**Dehydration Process** 

Dehydration Process Flow Diagram

Safety Precautions & Other Cares in Garlic Dehydration

10. ONION PICKLE

Introduction

Raw Material

Onion Pickle Manufacturing Process

Onion Pickle Process Flow Diagram

11. ONION CHUTNEY

Introduction

Manufacturing Process of Onion Chutney

**Process Flow of Onion Chutney** 

12. GARLIC OIL

Introduction

Garlic Oil manufacturing Methods

Manufacturing Process

Removal of Undesired Material

Washing of Bulbs

Peeling

Crushing of Bulbs

A Steam Distillation

a. Hydrodistillation

b. Direct Steam Distillation

Advantages of Direct Steam Distillation

Disadvantage of Direct Steam Distillation

Inspection and Analyzing

Packing and Dispatching

**Heart Diseases** 

Cholesterol Levels

Process Flow Diagram

Diabetes

**Bodily Aches and Pains** 

Skin Problems & Other Infections

Other Ailments

13. ONION POWDER

Introduction

Varieties of Onion Powder

**Chemical Specification** 

**Nutritional Information** 

Uses of Onion Powder

Meat Rubs

**Bloody Maty Drinks** 

Spice Mixes

Dressings

Manufacturing Process of Onion Powder

**Process Flow Diagram** 

Health Benefits of Onion Powder

Low in Fat and Calories

Potassium

Magnesium

Calcium

Low in Sodium

14. GINGER OIL

Introduction

Solubility

**Chemical Composition** 

Uses and Application

Packing and Marking

Manufacturing Process

Preparation of Raw Material

Cleaning

Milling

Soaking

Loading or Charging

Bleaching of Ginger

Practice of Distillation

Steam Distillation

End of Distillation

Treatment of the Volatile Oil

Treatment of the Distillation Water

Manufacturing Process Flow Diagram

Rectification of Essential Oils

Problems Relating to Steam Distillation

**Environment Pollution and Effluent Treatment** 

15. GINGER POWDER

Introduction

**Properties** 

Uses of Ginger Powder

Manufacturing Process of Ginger Powder

**Process Flow Sheet** 

16. GINGER PASTE

Properties of Ginger Paste

Uses of Ginger Paste

Chemical & Physical Specification of Ginger

Manufacturing Process

Process Flow Diagram

17. TOMATO PULP

Introduction

Manufacturing Process of Tomato Pulp

Sorting

Washing and Trimming

Crushing

Pulping

Hot Process

**Process Flow Diagram** 

18. TOMATO PASTE

Introduction

Raw Material Requirements

Manufacturing Process of Tomato Paste

Process Flow Diagram

19. TOMATO KETCHUP

Introduction

Uses of Tomato Ketchup

Ingredients Required

**Process Description** 

Process Flow Diagram

20. TOMATO POWDER

Introduction

**Uses & Applications** 

Procedure for Making Tomato Powder

**Primary Method** 

Secondary Method

Process Flow Diagram

21. DISPOSABLE BLOOD BAGS

Introduction

Flexible PVC Blood Bags

Uses of Blood Bags

Properties of Disposable Blood Bags

Raw Material

Quality of the Raw Materials

- 1. Translucency so can Check it Full, and See Layers in Centrifuged Bags
- 2. Flexibility (Low Bending Stiffness) so can Process by Squeezing the Bag
- 3. Heat Resistance, so can Steam Sterilize Prior to Use
- 4. Materials Property-Melting Temperature
- 5. Must Not Burst in the Centrifuge, or Tear on Handling
- 6. Permeable to Oxygen, but not too Permeable to Water
- 7. Moderate Cost
- 8. Processing and Welding
- 9. PVC Plasticized Blood Bag sizes: 350 ml & 450 ml

Manufacturing Process

Flow Sheet Diagram

Bag Making

**Tube Making** 

**Blood Bag Forming Machine** 

Suppliers of Plant & Machinery

Raw Materials Addresses

22. DISPOSABLE MASKS

Introduction

**Uses & Applications** 

**Properties** 

Manufacturing Process of Disposable Surgical Masks

Sterilization

Flow Diagram for Disposable Surgical Mask

Machinery Images for Masks

Mask Making Machine

Surgical Mask Sewing Machine

Mask Blank Machine

Plant & Machinery Suppliers

23. DISPOSABLE SURGICAL CATHETERS

Introduction

**Uses & Applications** 

Common Features of Central Venous Catheter (CVC)

Manufacturing Process of Catheters

Process Flow Diagram of Catheter

Catheter Production Equipments

Plant & Machinery Suppliers

Suppliers of Raw Materials

24. DISPOSABLE PLASTIC SYRINGES

Introduction

Uses

Necessity of Disposable Syringes

Parts of a Disposable Syringe

Nozzle

Piston

Raw Material Used for Manufacturing Disposable Syringes

Polyolefin - (Polyethylene and Polypropylene)

Polyethylene

Polypropylene

Polystyrene

Natural Rubber

Synthetic Polymeric Material

Silicone Oil

Leakage Test

Sterility

Packing

**Outer Container** 

Marking of Outer Containers

Manufacturing Process

Process Description

1st Stage of Process

2nd Stage of Production

3rd Stage of Process

4th Stage of Production

Process Flow Diagram

Assembling Operation and Packing

Machinery Images

Single Barrel Moulds

Syringe Plunger Moulds

Injection Moulding Machine

Disposable Syringe Packaging Machine

Storage of Sterilized Articles

Test for Detection of Aerobic and Anaerobic Organism

Media

Medium for Anaerobic Organism

Medium for Aerobic Organism

A. Benzathine Penicillin, Benzyl Penicillin

B. Other Antibiotic

C. Test for Detection of Fungi Medium

Suppliers of Raw Material

25. PLASTIC CUPS

Introduction

Plastic Cups

Manufacturing Method

Thermoforming

Heating

Forming

Cooling

Trimming

Machine Type

Application of Thermoforming Technique

Raw Material

Steps

Polypropylene Characteristics

Compatibility of Polypropylene with Common Products

Properties of Poly Propylene

Specific Gravity

Mechanical Properties

Electricals

Chemical Resistance

Specification of Thermoforming Machines

Moulds

Glass

Cups

**Plates** 

Spoons

Printing on Polypropylene

Printing on Cups, Glasses and Plates

Roto Gravure Printing

For Multicolor Printing

Flow Diagram for Disposable Plastic Cups

Plant and Machinery Details

Thermoforming Machine

Specifications

Thermoformable Extrusion Line

Mono & Multilayer Thermoformable Sheet Lines

Specifications

Plastic Cup thermoforming Machine

Usage

Hydraulic Automatic Cup Making Machine

Parameter

Functions and Characteristics

Complete Line: Extrusion + Cup Making Machine

Plastic Sheet Extruder

A. Main Parameters

B. Configuration and Specification

1. Main Extruder: one

2. Non-stop Fast Screen Changer With Double-sieve: one set

3. Die-Head

Calendar Roll Stack: one

4. Thermostat System: Two sets (Only use for making PS sheet)

5. Air Cooling Stand: one

6. Trimming Unit: one

7. Haul Off Unit: one

8. Single-shaft Winder (One set)

9. Electronic Control Cabinet: one set

10. Waste sheet re-winder: one set

Main Technical Data

Feature

**Key Electric Components** 

**Assistant Machines** 

Automatic Cup Stacking Machine

Usage

Main Technical Parameter

Screw Air Compressor

Industrial Chiller (Air Cooled)

Model Specification

Thermoforming/Vacuum Forming Sheet Extrusion Line

PP/PS Specification

Multi-Laye Cp-Extrusion Sheet Line

**Technical Specification** 

**Features** 

HIPS / ABS / PC / PMMA / PS Extrusion Sheet Line

**Technical Specification** 

Suppliers of Plant & Machinery

Raw Material Suppliers

26. DISPOSABLE BANANA LEAF PLATE

Introduction

**Function** 

Properties of Banana Leaf Plates

Use and Application of Banana Leaf Plates

Utility

Area of Usage

Raw Material

Banana Tree/Leaves

Manufacturing Process of Banana Leaf Plates

Process Steps

Description

Flow Diagram

**Machinery Description** 

Leaf Plate Making Machine

Description

Materials

Construction

Working

Leaf Plate Making Machine

Machinery Details

Suppliers of Plant and Machinery

Suppliers of Raw Material

27. FACIAL TISSUE & BABY WET WIPES

Introduction

What is a Tissue Paper?

**Properties** 

Production

**Applications** 

Hygienic Tissue Paper

**Facial Tissues** 

Paper Towels

Wrapping Tissue

**Toilet Tissue** 

Table Napkins

Facial Tissue

**Properties** 

Manufacturing Process for Facial Tissues

Steps

Pulping and Retting

Pressing

Creping

Reeling and Cutting

Uses of Facial Tissue

Size

**Effects** 

Wet Wipes

Introduction

Production

Uses

**Baby Wipes** 

Cleansing Pads

Industrial Wipes

Pain Relief

Personal Hygiene

Manufacturing Process Flow Diagram for Facial Tissue & Wet Wipes

Pet Care

Healthcare

Facial Tissue and Wet Wipes Machine Details

Facial Tissue Machine

Specifications

Professional Facial Tissue Machine

Specification

Wallet Pocket Facial Tissue Machine

Specification

Full-Automatic Box-drawing Facial Tissue Machine

Descriptions

Function and Features

**Technical Data** 

The Name of Spare Part of the Machine

Specification of Raw Material

Industrial Facial Tissue Making Machine

Supplier of Plant and Machinery

Suppliers of Raw Material

28. UREA FORMALDEHYDE RESIN ADHESIVE

Uses of Urea Formaldehyde Resin

Properties of Urea Formaldehyde Resin

Raw Material

**Process Description** 

Process Flow Diagram for Urea Resin Adhesive Plant

Machinery Required Equipment

29. TOOTHPASTE PRODUCTION

Toothpaste Composition and Ingredient Functionality

Typical Toothpaste Ingredients

**Process Description** 

Storing and Filling the Finished Toothpaste

Process Flow Diagram

Machinery Required

30. GYPSUM BOARD

Characteristics of Gypsum Board

Uses

Raw Material

**Gypsum Board Constituents** 

**Process Description** 

**Transportation** 

Installation

Flow Diagram

Machinery Required

Gypsum Drying Section

Gypsum Calcining Section

Forming and Drying Section

**Utility Section** 

31. SURGICAL ABSORBENT COTTON

Properties of Absorbent Cotton

Raw Material

Process Description Based on Before Carding Method

- (1) Opening and Cleaning
- (2) Filling
- (3) Bleaching
- (4) Hydro-extracting
- (5) Opening, Drying and Reserving
- (6) Carding
- (7) Winding, Cutting and Packing

Process Flow Sheet for Absorbent Cotton Making

Machinery Required

32. GLASS FIBRE

Types of Glass Fibre

**Properties** 

Uses

**Raw Materials** 

**Process Description** 

**Process Flow Diagram** 

Schematic Diagram of Direct Melt Process for Continuous Filaments

Schematic Diagram of Marble Melt Process for Continuous Filaments

Machinery Required

33. COMPLEX FERTILIZERS

Complex Fertilizer for Vegetables

Characteristics

Component

Complex Fertilizer for Beans

Characteristics

Component

Briquette Complex Fertilizer for Forest

Characteristics

Complex Fertilizer for Field Crops

Characteristics

Component

Complex Fertilizer for Horticulture

Characteristics

Component

Complex Fertilizer Manufacturing Description of NP & NPK

Granulator

Drying

Screening

Cooling

Polishing Screens

Cyclone Separators

Scrubbing Section

Process Flow Diagram

Equipments in Flow Chart

## 34. ACTIVATED CARBON FROM WOOD

Uses of Activated Carbon

Typical Properties of Activated Carbon

Raw Materials

Manufacturing Process

**Processing Steps** 

Flow Diagram

Machinery Required

35. BISCUITS

**Uses & Applications** 

Basic Raw Material for Biscuits

Manufacturing Process

Manufacturing Process Flow Diagram

36. 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** 

37. CHOCOLATES

Uses

Composition of Fermented Cocoa Beans

Raw Material

Sweet Dark Chocolate

Semi-Sweet or Bittersweet Dark Chocolate

Milk Chocolate

White Chocolate

Nutritional Information of Milk 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** 

38. 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

39. INSTANT NOODLES **Nutrition Value of Instant Noodles** Manufacturing Process Mixing Sheeting Cutting/Slitting and Waving Steaming and Molding Frying/Drying **Packaging Process Flow Diagram** 40. KHAKHRA Uses and applications Nutrition Facts of Khakhra Manufacturing Process of Khakhra Process Flow Diagram 41. SOFT DRINKS Ready-to-drink Products Concentrated Soft Drinks **Properties** Manufacturing Process Packing Cold-filling **Process Flow Diagram** 42. SPICES Uses & Applications General Manufacturing Procedure Process Flow Diagram

43. 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 varies 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

Sat, 27 Apr 2024 11:04:26 +0530