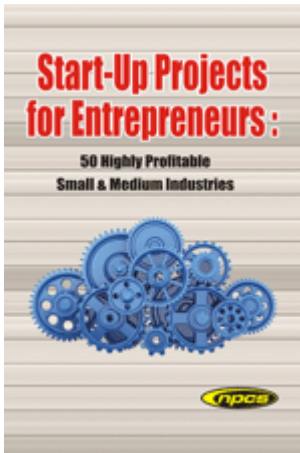


# Startup Projects for Entrepreneurs: 50 Highly Profitable Small & Medium Industries



**Author:** NPCS Board of Consultants & Engineers

**Format:** Paperback

**ISBN:** 9789381039724

**Code:** NI295

**Pages:** 400

**Price:** Rs. 1,675.00 **US\$** 150.00

**Publisher:** NIIR PROJECT CONSULTANCY SERVICES

Usually ships within **3** days

The first step to initiate planning is to identify a suitable project. To start your own venture you have to decide on many things. Making a choice of the right project is a difficult decision for an entrepreneur and is an imperative decision.

There are no set rules to identify a suitable project, though this is one decision on which the success of your entire venture hinges. So, don't take hasty decisions. Most prospective entrepreneurs tend to display the herd tendency and go for a project, which people have already ventured into. This is not a healthy attitude as success of one in a particular field does not guarantee success of the other. While identifying a suitable project, you should make a SWOT analysis of your own strengths and weaknesses.

## Startup India Stand up

Our Prime Minister unveiled a 19-point action plan for start-up enterprises in India. Highlighting the importance of the Standup India Scheme, Hon'ble Prime minister said that the job seeker has to become a job creator. Prime Minister announced that the initiative envisages loans to at least two aspiring entrepreneurs from the Scheduled Castes, Scheduled Tribes, and Women categories. It was also announced that the loan shall be in the ten lakh to one crore rupee range.

A startup India hub will be created as a single point of contact for the entire startup ecosystem to enable knowledge exchange and access to funding. Startup India campaign is based on an action plan aimed at promoting bank financing for start-up ventures to boost entrepreneurship and encourage startups with jobs creation.

Startup India is a flagship initiative of the Government of India, intended to build a strong ecosystem for nurturing innovation and Startups in the country. This will drive sustainable economic growth and generate large scale employment opportunities. The Government, through this initiative aims to empower Startups to

grow through innovation and design.

What is Startup India offering to the Entrepreneurs?

Stand up India backed up by Department of Financial Services (DFS) intends to bring up Women and SC/ST entrepreneurs. They have planned to support 2.5 lakh borrowers with Bank loans (with at least 2 borrowers in both the category per branch) which can be returned up to seven years.

PM announced that “There will be no income tax on startups’ profits for three years”

PM plans to reduce the involvement of state government in the startups so that entrepreneurs can enjoy freedom.

No tax would be charged on any startup up to three years from the day of its establishment once it has been approved by Incubator.

The next step, after you have selected your project, is to collect all information about it. The most important information is about the potential market of the items you selected. This book aims at providing a thorough understanding and analysis of the 50 highly profitable industrial projects that you can start. It describes formulae, properties, raw materials used and manufacturing processes of different products. Undoubtedly, this book is a gateway leading you to become your own boss.

The important projects described in the book are Linear Alkyl Benzene, Soy Flour & Milk Processing, Urea Formaldehyde Resin Adhesive, Toothpaste Production, Gypsum Board, Surgical Absorbent Cotton, Starch Derivatives Production, Wet – blue leather, PVC paste Resin, Saccharin, Sodium Chlorite, Phosphate Fertilizer, Tomato Paste, Paint, Autoclaved Aerated Concrete (AAC Blocks), Carbon Black, Caffeine, Sodium hydrosulfite, Magnesium Sulphate (Fertiliser Grade), TMT Bar, Glass Fibre, Plastic (P.V.C.) Laminated Collapsible Tubes, Complex fertilizers, Copper Powder By Electrolysis Process, Atomized Metal powder, Electro Plating, Activated Carbon from Wood, Rubber Powder from Waste Tyres, Precipitated Calcium Carbonate, PVC Flex Banner Production, Reclamation of Used Engine Oil, Edible Corn Oil, Malt Production, Ethyl Oleate, Wheat Flour Mill, Instant Noodles, Zinc, Castor Oil & Pomace, Garlic Oil and Powder, Silica from Rice Husk, Thermocol Cups, Glass and Plates, Match Box (Automatic Plant), Camphor, LDPE/LLDPE Pouch Films, E-waste recycling, Cattle Feed, Saw Pipe, Polyethylene Wax, Disposable Plastic Syringes, Cement.

It will be a standard reference book for professionals and use by everyone who wants to startup as entrepreneur.

## **Contents**

### **1.HOW TO START AN INDUSTRY SUCCESSFULLY**

Choose an Industry or Location Conduct Your Feasibility Studies Sources of Project Ideas

(a)Analysis of Industries' Performance

(b)Analysis of Inputs and Outputs of Industries

- (c) Analysis of Imports and Exports
- (d) Government's Guideline to Industries, Published Annually is Available
- (e) Suggestions of Financial Institutions and Developmental Agencies
- (f) Survey of Local Resources
- (g) Analysis of Economic and Social Trends
- (h) New Technologies
- Create Your Business Plan
- Finance Your Business
- Cash Flow
- Collateral
- Commitment
- Character
- Make a Good Impression with Your Lenders
- Market Research

## 2.PROJECT IDENTIFICATION

How This Book Helps You to Identify the Project?

## 3.LINEAR ALKYL BENZENE

- Uses
- Properties
- Typical Property of Linear Alkyl Benzene
- Raw Materials Required
- Process Description
- Flow Diagram
- Environmental Exposure
- Occupational Exposure
- Machinery Required

## 4.SOY FLOUR & MILK PROCESSING

- 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

## 5.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

## 6.TOOTHPASTE PRODUCTION

- Toothpaste Composition and Ingredient
- Functionality
- Typical Toothpaste Ingredients Process Description
- Storing and Filling the Finished Toothpaste Process Flow Diagram

Machinery Required

## 7.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

## 8.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, Opening and Reserving

(6) Carding

(7) Winding, Cutting and Packing

Process Flow Sheet for Absorbent Cotton

Making Machinery Required

## 9.STARCH DERIVATIVES PRODUCTION

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

## 10.WET - BLUE LEATHER

Raw Material

The Process

Soaking Chemicals

Liming Chemicals & Use Condition

Chemicals

Conditions

Machinery Required

## 11.PVC PASTE RESIN

PVC Resin Suspension Grade PVC

Emulsion Grade PVC Bulk Polymerised PVC Copolymer PVC K Value

Rar Material and Utilities Process Description VCM Receiving & Storage VCM Recovery VCM Purification Dispersion Process Polymerization Process Drying Process Flow Diagram Machinery Required

## 12.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

## 13.SODIUM CHLORITE

Uses

Raw Materials

Process Description

Sodium Chlorite Manufacturing Process

Diagram Machinery Required

## 14.PHOSPHATE FERTILIZER

P is Essential for Plant Nutrition Types of Phosphorus Fertilizer Raw Material Process Description

(a) Superphosphate

(b) Fused Phosphate

(c) Fused and Superphosphate Complex

Fertilizer

Superphosphate Manufacturing Process

Flow Sheet Fused Phosphate Manufacturing Process

Flow Sheet Fused and Superphosphate Fertilizer

Manufacturing Process Flow Sheet Machinery Required Pollution Prevention and Control

## 15.TOMATO PASTE

Uses

Raw Material Requirements

Raw Material

Process Description

Receiving

Sorting

Juice Extraction

Evaporation

Aseptic Filling

Machinery Required

## 16.PAINT

Raw Material Products Specifications Flow Diagram Machinery Required

## 17.AUTOCLAVED AERATED CONCRETE (AAC BLOCKS)

Features

Raw Material

Advantages of Autoclaved Aerated Concrete

Blocks

Typical AAC Product Shapes Process Description Detailed Schematic Diagram of the Production Process Machinery Required

## 18.CARBON BLACK

Uses

Raw Material

Process Description

Reaction Section

Filtration

Pneumatic Conveying

Pelleting

Drying

Storage and Shipping

Process Flow Diagram

Machinery Required

## 19.CAFFEINE

General Details

Uses

Pharmacological Effects of Caffeine

Raw Material

Process

Making

Process Flow Diagram

Machinery Required

## 20.SODIUM HYDROSULFITE

Uses

Process of Manufacture Flow Diagram Required Machinery

## 21.MAGNESIUM SULPHATE (FERTILISER GRADE) PLANT

Molecular Structure

Product Specification

Physical Properties

Main Feature

Uses

Raw Material

Manufacturing Process

From Mineral Kieserite

Reaction of Magnesium Oxide and Sulfuric

Acid Composition of Magnesium Sulphate

Heptahydrate Packaging Production Process Machinery Required

## 22. TMTBAR

Uses

Product Specification

Manufacturing Process

Quenching

Tempering

The Cooling Process Process Flow Diagram Machinery Required

### 23. 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

### 24. PLASTIC (P.V.C.) LAMINATED

COLLAPSIBLE TUBES

Uses

Raw Material Required

Process

Process Flow Diagram

Machinery Required

### 25. 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

### 26. COPPER POWDER BY ELECTROLYSIS

PROCESS

Product Specifications

Uses

Raw Material

Process Description

Cleaning of Powders

Process Flow Diagram

Machinery Required

### 27. ATOMIZED METAL POWDER

Examples of Metal Powders

Pure Metals

- Alloys
- Compounds
- Uses
- Metal Powder Applications
- Powdered Components
- Thermal Surfacing
- Architectural
- Decorative Applications
- Industrial
- Metal Powder Characteristics
- Selection Criteria
- Process Description
- Machinery Required

## 28. ELECTROPLATING

- Uses
- Process Description
- Polishing
- Pretreatment
- Plating
- After-treatment
- Electroplating Process Block Diagram
- Machinery Required

## 29. ACTIVATED CARBON FROM WOOD

- Uses of Activated Carbon
- Typical Properties of Activated Carbon
- Raw Materials
- Manufacturing Process
- Processing Steps
- Flow Diagram
- Machinery Required

## 30. RUBBER POWDER FROM WASTE TYRES

- Uses of Rubber Powder
- Manufacturing Process
- Flow Diagram
- Environmental Concerns of Tyre Recycling
- Machinery Required

## 31. PRECIPITATED CALCIUM CARBONATE

- Uses
- Physical and Chemical Properties
- Manufacturing Process
- Flow Diagram
- Required Machinery

## 32. PVC FLEX BANNER PRODUCTION

- Process Description
- Mixing
- Extrusion
- Tempering Rolls/Embossing Unit
- Flow Diagram



Winding Station  
Machinery Required

### 33. RECLAMATION OF USED ENGINE OIL

Uses  
Process Description  
Blending  
Process Flow Diagram  
Sludge Disposal (Pollution Control)  
Machinery Required

### 34. EDIBLE CORN OIL

Process Description Required Machinery

### 35. MALT PRODUCTION

Standard Malt and Specialty Malt  
Barley Conditioning  
Malting  
Malt Treatment  
Process Flow Diagram  
Machinery Required

### 36. ETHYL OLEATE

Properties  
Oleic Acid  
Uses  
Process Description  
Machinery Required

### 37. WHEAT FLOUR MILL

Composition of Wheat Properties of Wheat Flour Flour Mill Products Manufacturing Process Machinery  
Required Cleaning Section: Machinery Milling Section: Machinery Conveying Equipments Refraction Grinding  
System

### 38. INSTANT NOODLES

Manufacturing Process  
Processing and Classification of Instant  
Noodles Machinery Required

### 39. ZINC

Uses of Zinc Process Description Process Description Machinery Required Roasting Process Acid Making  
Process Leaching Process Electrolysis Process Casting Process  
Cd Making Process CuSO<sub>4</sub> Making Process

### 40. CASTOR OIL & POMACE

Uses  
Agriculture  
Food  
Textile Chemicals  
Paper  
Plastics & Rubber  
Perfumeries  
Cosmetics

Electronics & Tele-Communications  
Pharmaceuticals  
Aints, Inks & Adhesives  
Lubricants  
General Specifications  
Process Description  
Process Flow Diagram

#### 41. GARLIC OIL AND POWDER

Composition  
Uses  
Process Description  
Process Flow Diagram  
Machinery Required

#### 42. SILICA FROM RICE HUSK

Composition of Rice Husk Ash on Dry Basis  
1. Digestion  
2. Precipitation  
3. Regeneration  
Process Flow Diagram  
Machinery Required

#### 43. THERMOCOL CUPS, GLASS AND PLATES

Uses  
Food Packaging Like  
Protective and Display Packaging  
Other Applications  
Process Description  
Flow Diagram for EPS (Thermocol) Plates  
Flow Diagram for Expanded Poly Styrene  
Cups & Glass Machinery Required For Plates For EPS Glass & Cups

#### 44. MATCH BOX (AUTOMATIC PLANT)

Raw Material Product Specification Process Description Match Box Manufacturing Filling  
Finishing Process Process Flow Diagram

#### 45. CAMPHOR

Uses  
Production  
Process Flow Diagram  
Machinery Required

#### 46. LDPE/LLDPE POUCH FILMS

Uses  
Raw Materials Process Description Process Flow Diagram Machinery Required

#### 47. E-WASTE RECYCLING

Effects on Environment and Human Health Effects of E-Waste Constituent on Health Components of  
E-Waste Management Process Description Manual Dismantling and Sorting Mechanical Shredding and  
Separation Metallurgical Processes Process Flow Diagram

#### 48. CATTLE FEED

Raw Materials for Concentrate Feeds

Process Description

Reception of Raw Material

Storage of Raw Materials

Blending

Grinding

Process Flow Diagram

Machinery Required

#### 49. SAW PIPE

Uses

Industries Serviced

Oil and Gas Pipeline

Power Plant

Water & Sewerage

Structural

Other Industrial

Raw Material

Product Specification

Process Description

The Making of Spiral Weld Pipes

Ultra-Sonic Testing

X-Ray Test and Fluoroscopy

Hydro Testing

Final Inspection, Visual Checking,

Weighing and Measuring Process Flow Diagram Machinery Required Pipe Manufacturing & Testing

Equipment

#### 50. POLYETHYLENE WAX

Polyethylene Wax

Characteristic Properties of PE Wax

High Molecular Weight Polyethylene Wax

Low Molecular Weight Polyethylene Wax

Raw Material

Process Description

Reaction Conditions

Flow Diagram

Machinery Required

#### 51. DISPOSABLE PLASTIC SYRINGES

Uses

Raw Material

Process Description

Plunger, Barrel & Gasket Production by

Injection Moulding Machine Advantages of Injection Moulding Assembly of Plunger, Barrel, Gasket and

Needle by Machine Process Flow Diagram Packing by Poly Bag or Blister Sterilization by EO Sterilization

Chamber Machinery Required

#### 52. CEMENT

Uses

Types of Cement

Raw Material

Process Description Mining and Crushing Raw Mill

## 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.

---

**NIIR PROJECT CONSULTANCY SERVICES** , 106-E, Kamla Nagar, New Delhi-110007, India. **Email:** [npcs.india@gmail.com](mailto:npcs.india@gmail.com) **Website:** [NIIR.org](http://NIIR.org)

Thu, 14 Dec 2017 09:43:06 +0530