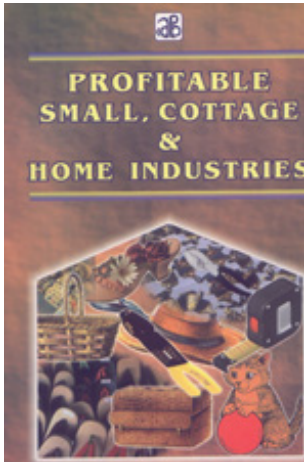


# Profitable Small, Cottage & Home Industries



**Author:** NIIR Board  
**Format:** Paperback  
**ISBN:** 8178330636  
**Code:** NI46  
**Pages:** 554  
**Price:** Rs. 800.00 US\$ 100.00  
**Publisher:** National Institute of Industrial Research  
Usually ships within **3** days

The identification of a suitable project within the investment limit of a new entrepreneur is very difficult. The present book strives to meet this specific entrepreneurial need. The book contains processes formulae, brief profiles of various projects which can be started in small investment without much technical knowledge at small place. This is very useful publication for new entrepreneurs, professionals, libraries etc.

## Contents

1. Steps in Setting Up an SSI
  - Step 1 : Know Yourself
  - Step 2 : Training
  - Step 3: Project Identification Selection
  - Step 4: Location of the Enterprise
    - Premises Owned Vs Hired
    - Typical Question
  - Step 5: Preparation of a Project Report
    - Typical Questions
    - How is the cost project report calculated?
    - What is meant by 'contingencies'?
    - What are the expenses included under preliminary and preoperative expenses?
    - How does one calculate the amount of margin on Working Capital?
  - Step 6: Arranging Technical know how
  - Step 7: Constitution of the firm
  - Step 8: Registration
  - Step 9: Arranging Finance
    - Other Sources
    - Need for Planning
    - Margin Money
    - I Needn't Be Rich
  - Step 10: Statutory Licences/Approvals/Clearances26

Step 11: Arranging Land & Building  
Step 12: Procuring Plant & Machinery  
Step 13: Utilities: Power Connection/Water Supply<sup>35</sup>  
Step 14: Recruitment of Personnel  
Step 15 : Procurement of Raw Materials  
Step 16 : Registration with Excise/Sales Tax Authorities  
Step 17 : Trial Production  
Step 18 : Commercial Production  
Step 19 : Marketing  
Step 20: Accountants and Record-Keeping  
Step 21: Market Research  
Step 22: Quality Control  
Step 23: Updating Yourself  
Step 24: Growth  
Step 25: Avoiding Typical Pitfalls

## 2. Registration/Licences for SSI

Special Approvals

Pollution Control Board

## 3. Resourcing

(A) Non-Financial

I. National Level

II. State Level

(B) Financial

## 4. Plastic Spectacle Frames

Introduction

Uses and Applications

Raw Material Required

B.I.S. Specifications

Frame Spectacle Glossary

Market Survey

Demand Supply Gap

Major Buying Countries

Quality Control and Standard

Process of Manufacture

Sheet Cutting

Forming and Welding

Wire Insertion

Assembling & Buffing

Packing and Despatching

Raw Material Suppliers

Cellulose Acetate Sheet

Steel Wire or Rod

Suppliers of Plant Machineries

Forming and Welding Machine

Drilling Machine

Compression Moulding Machine

Plant Economics

## 5. P.V.C. Rexine Cloth

Introduction

Polyvinyl Chloride (P V C)  
Common Name - P V C  
Characteristics  
Uses and Applications  
Market Survey  
Manufacturing Process  
Pigment Titanium Dioxide  
Supply of Raw Material PVC Resins  
Titanium Dioxide  
Lead Stearate  
Plastic Colours & Pigments  
Suppliers of Plant & Machinery  
Plant Economics

## 6. Plastic Granules from Scraps/Waste

Introduction  
Plastic Classification  
Uses and Applications  
Resources of Plastic Waste  
Foreign Suppliers of plastic Waste  
Waste Raw Materials Suppliers  
B.I.S. Specification  
Process of Manufacture to Produce Colourless Transparent Plastic Granules from Waste  
Sorting  
Smashing  
Washing  
Concentration of Blending  
Solvent Addition  
Removal of Colour to Obtain Transparent  
Granules by Activated Carbon Treatment  
Filtration  
Distillation  
Cooling and Dehumidifying  
Granulation  
Manufacturing Process Flow Sheet for Plastic Granules from Plastic Scrap  
Suppliers of Plant & Machinery  
Reaction Vessel  
Granulators  
Mixer  
Distillation Units  
Rotary Drum Filters  
Grinder  
Plastic Waste Grinder & Cutter  
Dryer  
Baby Boilers  
Tanks  
Storage Tank  
Packaging Machinery  
Pipe & Fitting  
Motors & Pumps  
Suppliers of Raw Materials Dimethyl Phthalate  
Ethanol  
Toluene & Xylene

Activated Carbon  
Plant Economics

## 7. P.V.C. Hand Gloves

Introduction  
Properties  
Uses  
B.I.S. No. of Hand Gloves  
Manufacturing Process  
Packing Process  
Process Flow Diagram  
Market Survey  
Production of Hand Gloves  
Present Manufacturers  
Plant & Machinery Suppliers  
Raw Material Suppliers  
Plant Economics

## 8. H.D.P.E. Tarpaulins

Introduction  
Properties of HDPE  
Uses and Application  
B.I.S. Specifications  
Market Survey  
Export Potential  
Lamination (or Sealing) By Hot Rolling  
Process Flow Diagram for HDPE Woven Tarpaulines  
Suppliers of Raw Materials  
H.D.P.E. Granules  
Plasticizers  
Stabilizers  
Colours  
Printing Inks  
Suppliers of Plant & Machinery  
Plain Looms  
Warping Machine  
Flexographic Printing Machineries  
Present Manufacturers  
Plant Economics

## 9. Tooth Brush

Introduction  
Properties of Tooth Brush  
B.I.S. Specification  
Uses and Application  
Market Survey  
Manufacturers of Tooth Brushes  
Handle Making  
Fibre Dressing  
Filling  
Trimming  
Embossing of the Mark etc.  
Packing

Process Flow Sheet for Tooth Brush Making

Suppliers of Raw Materials

Polystyrene

Colour

Packaging Materials

Sheets for Tooth Brush Handles

Suppliers of Plant and Machinery

Moulding Press (Hand Operated)

Other Machinery

Moulds & Dies

Plant Economics

10. H.D.P.E. Films/Sheets

Introduction

Uses & Applications of High Density

Polyethylene Sheets or Films

Properties of High Density Polyethylene Sheet

B.I.S. Specification

Market Survey

Demand Supply Gap

Manufacturing Process

Plant & Machinery Suppliers

Suppliers of Raw Material

Plant Economics

11. Fibre Reinforced Plastics

Introduction

Properties

Uses and Applications

Market Potential

Present Manufacturers

Formulation & Process of Manufacture

Catalysts and Accelerators

Colouring material & Fillers

Processing Conditions

Flow Sheet for Fibre Reinforced Glass Moulded Products

Raw Materials Suppliers

Fibre Glass

Polyester Resin

Calcium Carbonate

China Clay

Hydrated Lime

Calcium Stearate

Methyl-Ethyl Ketone Peroxide

Plant and Machinery

Plant Economics

12. Polyester Resin

Introduction

Properties and Uses

Indian Standard Specifications

Market Survey

Estimated Demand for Polyester Film

Process of Manufacture  
Blending Operation  
Packaging  
Suppliers of Plant and Machinery  
Present Manufacturers/Suppliers  
Raw Materials  
Maleic Anhydride  
Phthalic Anhydride  
Styrene  
Propylene Glycol  
Plant Economics

### 13. Plastic Cooler Body

Introduction  
Blow Moulding Machine  
Extrusion  
Properties  
Uses  
B.I.S. Specification  
Manufacturing Process  
Manufacturing Flow Sheet  
Market Survey Report  
Uses of coolers in India as Follows  
Suppliers of Plant and Machineries  
Injection Moulding M/c.  
Raw Material Suppliers  
Plant Economics

### 14. Disposable Plastic Cups and Glass Etc.

Introduction  
Market Survey  
Manufacturing Method  
Thermoforming  
Machine Type  
Moulds  
Glass  
Cups  
Plates  
Spoons  
Printing on Cups, Glasses and Plates  
Roto Gravure Printing  
Suppliers of Machine  
Forming Machine Suppliers  
Sealing Machine  
Moulding Dies  
Suppliers of Raw Material  
Polypropylene  
L.D.P.E. Film  
Ethylene Oxide  
Present Manufacturers  
Plant Economics

### 15. Electroplating of Plastics

Introduction  
Properties  
Uses and Applications  
B.I.S. Specification  
Market Survey  
Present Electroplaters  
Pre-Plating Treatments  
Plastic Moulding  
Cleaning  
Solvent Treatment  
Conditioning  
Sensitizing, Nucleation  
Sensitizing  
Conditions of Use  
Nucleation  
Electroless Plating  
Operating Conditions  
Electroplatings  
Electroplating Process  
Manufacturing Process Flow Diagram  
Raw Material Suppliers  
Suppliers of Plant and Machinery  
Plant Economics

#### 16. Bakelite Electrical Accessories

Introduction  
Properties of Electrical Accessories  
Uses & Applications  
Raw Materials Required  
Plant & Machine Required  
Process of Manufacture  
Compression Moulding  
Transfer Moulding  
Injection Moulding Thermoset  
Manufacture of Handles for Iron  
Cost Economics

#### 17. Bleaching, Dyeing & Finishing of Textiles

Introduction  
Market Survey  
Raw Material Required  
Plant & Machinery Required  
Description of Textile Fibres  
Name of Acrylic Fibres  
Bleaching of Cotton Textiles  
Cellulose Dyeing with Procion (Reactive) Dyes  
Winch Dyeing of Cotton Knit Goods  
with Procion M Dyes  
Modified Methods for "Difficult" Cotton Material  
Modified Methods for Dyeing of "Difficult"  
Cotton Materials with Procion H Dyes  
on winch Machine  
Procion M dyes

Jig Dyeing of Woven Cotton Piece Goods  
Dyeing of cotton Piece Goods with  
Procion M Dyes  
Pad Jig Developed Method  
Development  
Pad Jig Developed Method  
Dyeing of Cotton Piece Goods with  
Procion H Dyes  
Dyeing of Cotton & Loose Fibre  
Dyeing with Procion M Dyes  
Dyeing with Procion H Dyes  
Dyeing of Ribbons, Tapes & Narrow  
Fabric with Procion Dyes  
Use of Wetting Agents in Procion H Dye  
Baths for Cellulosic Materials  
Wet Fastness Properties of Procion Dyeing  
Dyeing of Cotton Textiles with Sulphur Black  
Wash & Wear Finishes  
Cost Economics

#### 18. Acid Slurry

Introduction  
Properties  
Uses & Applications  
Market Survey  
Raw Material Required  
Plant & Machinery Required  
Process of Manufacture  
Cost Economics

#### 19. Ceramic Industries

Introduction  
Properties & Characteristics  
Uses & Applications  
Market Survey  
Formulations  
Raw Materials Required  
Plant & Machinery Required  
Manufacturing Process  
Manufacturing of Wares (White, Sanitary & Art)  
Jiggering  
Castings  
Finishing  
Glazing & Firing  
Decoration  
Manufacturing of Structural Ceramics  
Manufacturing of Refractories  
Drying  
Burning  
Manufacturing of Glass  
Melting  
Shaping & Forming  
Annealing

Finishing  
Cost Economics

## 20. Adhesives (Fevicol and Vamicol Etc.)

Introduction  
Phenol Formaldehyde Resin  
Urea Formaldehyde Resin  
Thermoplastic Resin  
Market Survey  
Process of Manufacture  
Composition of Phenol Formaldehyde Adhesive  
Urea Formaldehyde Adhesives  
Process Manufacture  
Process  
Raw Material Required  
Plant & Machinery Required  
Manufacturing Process  
Cost Economics

## 21. Computer Ribbons

Introduction  
Uses & Applications  
Market Survey  
Formulation of Inks  
Raw Material Required  
Plant & Machinery Required  
Manufacturing process  
Application of Ink to the Tape  
Cost Economics

## 22. Coir-Foam

Introduction  
Properties & Characteristics  
Uses & Applications  
Market Survey  
Formulation  
Raw Material Required  
Plant & Machinery Required  
Manufacturing Process  
Cost Economics

## 23. Cosmetics

Introduction  
Classification  
Properties and Characteristics  
Uses & Application  
Market Survey  
Raw Material Required  
Plant & Machinery  
Manufacturing process  
Formulations  
Antiperspirant & Deodorants  
Deodorant Liquid Formulation

Baby Cream  
Baby Oil  
Dry Skin Cream  
Moisturising Cream  
Enamel Remover  
Process of Manufacture  
Depilatories  
Hair Dyes  
Lead Dye  
Black Silver Dye  
Copper Hair Dye  
Hair Fixers  
Lipsticks  
Nail Lacquers  
Talcum Powders  
Shampoos  
Powder Shampoos  
Shampoo Sulfonated Oil-Soapless  
Tooth Paste & Powder  
Herbal Formulations  
Extracted Flavour for Herbal Tooth Paste  
Flavour Used for Tooth Paste  
Herbal Tooth Powder  
Herbal Hair Oil  
Herbal Shampoo  
Cost Economics

#### 24. Electric Mixer

Introduction  
Market Survey  
Raw Material Required  
Plant & Machinery Required  
Testing Instruments  
Process of Manufacture  
Cost Economics

#### 25. Hawai Chappal

Introduction  
Properties & Characteristics  
Uses & Applications  
Market Survey  
Formulations  
Raw Materials  
Plant & Machinery  
Manufacturing Process  
Manufacture of Straps  
Manufacture of Sole Surface  
Manufacture of Sole  
Cost Economics

#### 26. Greases

Introduction  
Properties

Mechanical Properties  
Loss of Evaporation  
Oxidation Stability  
Heat Stability  
Uses & Applications  
Market Survey  
Formulation of Greases  
Raw Materials  
Plant & Machinery  
Process of Manufacture  
Principles  
Processing  
Manufacturing Process of Greases in General  
Cost Economics

#### 27. Ferric Alum

Introduction  
Properties & Characteristics  
Uses & Applications  
Market Survey  
Raw Material Required  
Plant & Machinery Required  
Manufacturing Process  
Cost Economics

#### 28. Hosiery Industry

Introduction  
Uses & Applications  
Market Survey  
Raw Material Required  
Plant & Machinery Required  
Manufacturing Process  
Manufacture of Banyans & T-shirts  
Manufacture of Underwears  
Manufacturing of Sweaters  
Cost Economics

#### 29. Leather Garments

Introduction  
Uses & Applications  
Market Survey  
Raw Materials  
Plant & Machinery  
Manufacturing Process  
Vests  
Caps  
Cost Economics

#### 30. Fruit Drinks

Introduction  
Properties  
Uses & Applications  
Market Survey

Raw Material Required  
Plant & Machinery  
Manufacturing Process  
Cost Economics

### 31. Ice Cream and Ice Candy Industry

Introduction  
Properties & Characteristics  
Uses & Applications  
Market Survey  
Formulations  
Raw Material Required  
Plant & Machinery Required  
Manufacturing Process  
Cost Economics

### 32. Mushrooms (Dehydration & Pickling of Oyster and Paddy Straw Mushroom)

Names of Some Common Mushrooms  
Properties  
Analysis of Some Common Edible Mushrooms  
Button Mushroom  
Uses & Applications  
Market Survey  
Raw Material Required  
Plant & Machinery Required  
Processing of Mushrooms  
Cleaning  
Blanching  
Canning  
Sterilization  
Cooling  
Pickling & Preservation  
Cost Economics

### 33. Match Box and Fire Works Making Industry

Introduction  
Uses & Applications  
Market Survey  
Match Works  
Formulation  
Raw Material Required  
Plant & Machinery Required  
Manufacturing Process  
Cost Economics

### 34. Naphthalene Balls

Introduction  
Properties & Characteristics  
Physical of Naphthalene  
Uses & Applications  
Market Survey  
Raw Material Required  
Plant & Machinery Required

Manufacturing Process  
Cost Economics

35. Paints Industry

Introduction  
Properties & Characteristics  
Uses & Applications  
Market Survey  
Raw Material Required  
Plant & Machinery Required  
Paint Formulae  
Manufacturing Process  
Ready Mixed Paints  
Raw Materials for the Manufacture of Paints  
Manufacture of Paint  
Cost Economics

36. Reclamation of Used Engine Oil

Introduction  
Uses  
Market Survey  
Raw Materials  
Plant & Machinery  
Process of Manufacture  
Cost Economics

37. Pencil Making Industry

Introduction  
Properties & Characteristics  
Uses & Application  
Market Survey  
Formulation  
Raw Material Required  
Plant & Machinery Required  
Manufacturing Process  
Finishing Process  
Cost Economics

38. Room Cooler (Desert Type)

Properties & Characteristics  
Uses & Applications  
Market Survey  
Raw Material Required  
Plant & Machinery Required  
Manufacturing Process  
Cost Economics

39. Soap Industry

Introduction  
Properties & Characteristics  
Uses & Applications  
Market Survey  
Formulations for Toilet Soaps

Raw Materials  
Machinery Required  
Manufacturing Process  
Cold Process  
Semi-Boiled Process  
Full Boiled or Grain Process  
Cost Economics

40. Electronic Toys  
Introduction  
Uses & Applications  
Market Survey  
Plant & Machinery Required

Process of Manufacture  
Cost Economics

41. Engine Coolant  
Introduction  
Properties & Characteristics  
Uses & Applications  
Market Survey  
Formulations  
Raw Material Required  
Plant & Machinery Required  
Manufacturing Process  
Cost Economics

## About NIIR

**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, directory, 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 bureau, consultants and consultancy firms as one of the input in their research.

---

**National Institute of Industrial Research** , 106-E, Kamla Nagar, New Delhi-110007, India. **Email:** [niir@vsnl.com](mailto:niir@vsnl.com) **Website:** [NIIR.org](http://NIIR.org)

Sat, 22 Nov 2008 02:03:19 -0500