

Entrepreneur India

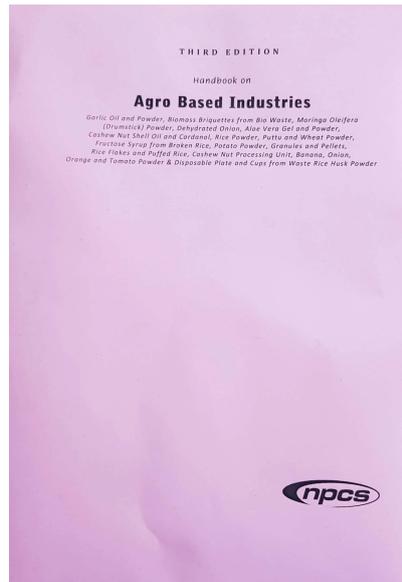
106-E, Kamla Nagar, New Delhi-110007, India.

Tel: 91-11-23843955, +91 9097075054

Mobile: +91-9097075054

Email: npcs.ei@gmail.com, info@entrepreneurindia.co

Website: www.entrepreneurIndia.co



Agro Based Industries Book

Code	ni0
Format	hardcover
Indian Price	₹1775
US Price	\$0
Pages	221
ISBN	9788195676934
Publisher	None

Description

Handbook on **Agro Based Industries** (Garlic Oil and Powder, Biomass Briquettes from Bio Waste, Moringa Oleifera (Drumstick) Powder, Dehydrated Onion, Aloe Vera Gel and Powder, Cashew Nut Shell Oil and Cardanol, Rice Powder, Puttu and Wheat Powder,

Fructose Syrup from Broken Rice, Potato Powder, Granules and Pellets, Rice Flakes and Puffed Rice, Cashew Nut Processing Unit, Banana, Onion, Orange and Tomato Powder & Disposable Plate and Cups from Waste Rice Husk Powder)



The term "[agro](#)" refers to agriculture, which is the cultivation of crops and the rearing of animals for various purposes. The agro-based industry, "agro" encompasses all the activities related to farming, including growing crops, raising livestock, and harvesting natural resources. Agro is the foundation of the agro-based industry, as it involves the production of raw materials and agricultural products that are essential for various sectors. This includes crops such as grains, fruits, vegetables, and oilseeds, as well as livestock such as cattle, poultry, and fish.

Agro-based industries use these agricultural products as raw materials for further processing and manufacturing. For example, crops can be processed into food products such as flour, oil, and beverages, while livestock can be processed into meat, dairy products, and leather. In addition to food and beverages, the agro based industry also includes sectors such as biofuels, forestry, and fisheries. Biofuels are derived from agricultural crops and are used as an alternative to traditional fossil fuels. Forestry involves the sustainable management of forests and the production of wood products. Fisheries focus on the breeding and harvesting of fish and other aquatic organisms. Agro is the backbone of the agro-based industry, providing the necessary raw materials and resources for various sectors. It is an integral part of our economy and plays a vital role in meeting the growing demand for food, fuel, and fiber products.



India is one of the largest producers of food, and is the second largest producer of rice, wheat, fruits, and vegetables in the world. Nearly 70% of the population depends on agriculture and agro-based industries. Since it would cause diversification and commercialization of agriculture, it will thus enhance the incomes of farmers and create food surpluses. It is a well-recognized fact across the world, particularly in the context of industrial development that the importance of agro industries is relative to agriculture increases as economies develop. It should be emphasized that food is not just produce. Food also encompasses a wide variety of processed products. It is in this sense that the agro-industry is an important and vital part of the manufacturing sector in developing countries and the means for building industrial capacities. The development of agro-based industries commenced during pre-independence days.

Cotton mills, sugar mills, jute mills were fostered in the corporate sector. The major contents of the book are production of Garlic Oil and Powder, Biomass Briquettes from Bio Waste, Moringa Oleifera (Drumstick) Powder, Dehydrated Onion, Aloe Vera Gel and Powder, Cashew Nut Shell Oil and Cardanol, Rice Powder, Puttu and Wheat Powder, Fructose Syrup from Broken Rice, Potato Powder, Granules and Pellets, Rice Flakes and Puffed Rice, Cashew Nut Processing Unit, Banana, Onion, Orange and Tomato Powder, Disposable Plate and Cups from Waste Rice Husk Powder with Manufacturing Process, Project Profiles (with cost estimation) and process flow diagrams. This book is also a fantastic resource for people interested in or who have worked in the Agro Based industry.

Profitable and viable business opportunities exist in the Agro sector. As a result, creating your own business is a good way to get into it. To learn more about Agro based industry in depth, read this book. It will assist you in figuring out how to establish your own Agro Business. Because of the increasing demand for Agro based Products in today's market, it's a terrific method to earn money.

Content

1. AGRO BASED INDUSTRIES

1.1. INTRODUCTION

1.2. INDIAN AGRI-BUSINESS FACTS AND FIGURES

1.3. SWOT ANALYSIS OF AGRO-PROCESSING INDUSTRY INFRASTRUCTURE IN INDIA

1.3.1. Strengths

1.3.2. Weaknesses

1.3.3. Opportunities

1.3.4. Threats

1.3.5. Agribusiness

1.4. SCOPE FOR AGRIBUSINESS IN INDIA

1.5. QUALITY CONTROL & STANDARDS

1.6. BUREAU OF INDIAN STANDARDS (BIS)

1.6.1. Agricultural Mechanisation

1.6.2. Demonstration of Newly Developed Agricultural/Horticultural Equipments

1.6.3. Outsourcing of Training

1.6.4. Post Harvest Technology and Management

1.6.5. State Agro Industries Corporations

1.6.6. Legislative Framework

2. GARLIC OIL AND POWDER 12

2.1. INTRODUCTION

- 2.2. PROPERTIES
- 2.3. USES
 - 2.3.1. Medicinal Use of Garlic as an Antifungal Agent
 - 2.3.2. Storing Garlic in Oil
 - 2.3.3. Uses of Garlic Powder
- 2.4. B.I.S. SPECIFICATIONS
- 2.5. DIFFERENT FORMS OF GARLIC
 - 2.5.1. Garlic Flakes
 - 2.5.2. Garlic Powder
- 2.6. RAW MATERIAL
- 2.7. MANUFACTURING PROCESS
 - 2.7.1. Garlic Oil
 - 2.7.2. Dehydration Process of Garlic Powder
- 2.8. SAFETY PRECAUTIONS IN GARLIC DEHYDRATION
- 2.9. PROCESS FLOW DIAGRAM OF GARLIC OIL & POWDER
- 2.10. PLANT ECONOMICS
- 3. BIOMASS BRIQUETTES FROM BIO WASTE 25
 - 3.1. INTRODUCTION
 - 3.2. TYPES OF BRIQUETTES ON THE BASIS OF RAW-MATERIALS
 - 3.2.1. Saw Dust Briquettes
 - 3.2.2. Mustard Husk Briquettes
 - 3.2.3. Cotton Briquettes
 - 3.2.4. Guar Briquettes
 - 3.2.5. Peanut Shell Briquettes
 - 3.2.6. Agro Waste
 - 3.3. USES AND APPLICATIONS
 - 3.4. BENEFITS OF THE BIOMASS BRIQUETTES
 - 3.4.1. Environmental Benefits
 - 3.4.2. Social Benefits
 - 3.4.3. Economic Benefits
 - 3.5. ADVANTAGES
 - 3.6. PROPERTIES
 - 3.7. CHARACTERIZATION OF BRIQUETTES
 - 3.8. BIOMASS CHARACTERISTICS
 - 3.9. FACTORS INFLUENCING BIOMASS UTILIZATION
 - 3.10. ENVIRONMENTAL ASPECTS
 - 3.11. RAW MATERIALS
 - 3.11.1. Biomass Classification on the Basis of Different Sector
 - 3.12. MANUFACTURING PROCESS
 - 3.13. PROCESS FLOW DIAGRAM
 - 3.14. HEALTH AND SAFETY MEASURES IN BRIQUETTE PRODUCTION

- 3.15. PLANT ECONOMICS
- 4. MORINGA OLEIFERA (DRUMSTICK) POWDER 47
 - 4.1. INTRODUCTION
 - 4.2. HISTORY OF MORINGA
 - 4.3. VARIETIES OF DRUMSTICKS (MORINGA)
 - 4.4. USES OF MORINGA
 - 4.5. NUTRITIONAL VALUES OF MORINGA
 - 4.6. USES OF DRUMSTICK POWDER
 - 4.7. HEALTH BENEFITS OF DRUMSTICKS
 - 4.8. NUTRITIONAL VALUE OF DRUMSTICK
 - 4.9. MANUFACTURING PROCESS
 - 4.10. PROCESS FLOW DIAGRAM
 - 4.11. QUALITY SPECIFICATIONS
 - 4.12. FOOD SAFETY & STANDARD REQUIREMENTS
 - 4.13. WASTE COLLECTION AND MANAGEMENT PROCEDURES
 - 4.13.1. Major Waste Generating Activities
 - 4.13.2. Waste Management Practices
 - 4.14. POLLUTION PREVENTION AND CONTROL
 - 4.15. PLANT ECONOMICS
- 5. DEHYDRATED ONION 60
 - 5.1. INTRODUCTION
 - 5.2. TYPES OF DEHYDRATED ONION
 - 5.3. NUTRITIONAL VALUES
 - 5.3.1. Onion
 - 5.3.2. Dehydrated Onion Flakes
 - 5.4. PRODUCTS SPECIFICATIONS
 - 5.4.1. Dehydrated Onion
 - 5.5. USES & APPLICATIONS
 - 5.5.1. Uses
 - 5.5.2. Applications
 - 5.6. B.I.S. SPECIFICATIONS
 - 5.7. HEALTH BENEFITS OF ONION
 - 5.8. HUNDRED PERCENT (100%) EXPORT ORIENTED UNIT
 - 5.9. DEHYDRATION PROCESS OF ONION
 - 5.10. PACKAGING OF DEHYDRATED ONION
 - 5.11. PROCESS FLOW DIAGRAM
 - 5.12. FOOD SAFETY REQUIREMENTS & STANDARD REQUIRED
 - 5.13. WASTE COLLECTION AND MANAGEMENT PROCEDURES
 - 5.13.1. Major Waste Generating Activities
 - 5.13.2. Waste Management Practices
 - 5.14. POLLUTION PREVENTION AND CONTROL

- 5.15. PLANT ECONOMICS
- 6. ALOE VERA GEL AND POWDER 76
 - 6.1. INTRODUCTION
 - 6.2. THE CHEMISTRY OF ALOE VERA
 - 6.3. HEALTH BENEFITS
 - 6.4. PROPERTIES OF ALOE VERA
 - 6.4.1. Active Components with its Properties
 - 6.5. USES & APPLICATIONS
 - 6.5.1. Aloe Vera Gel
 - 6.5.2. Aloe Vera Powder
 - 6.6. BENEFITS OF ALOE VERA POWDER
 - 6.6.1. Health Benefits
 - 6.7. BENEFITS OF ALOE VERA GEL
 - 6.8. MANUFACTURING PROCESS
 - 6.9. DETAILS MANUFACTURING PROCESS
 - 6.9.1. Aloe Vera Powder
 - 6.10. PROCESS FLOW DIAGRAM
 - 6.11. THE STAGES OF THE TTS (TIME, TEMPERATURE AND SANITATION) ALOE PROCESS
 - 6.11.1. Timing of Leaf Process
 - 6.12. PLANT ECONOMICS
- 7. CASHEW NUT SHELL OIL AND CARDANOL 95
 - 7.1. INTRODUCTION
 - 7.1.1. Cashew Nut Shell Oil
 - 7.1.2. Cardanol
 - 7.1.3. Characteristic of Cardanol
 - 7.2. USES & APPLICATION
 - 7.2.1. Cashew Nut Shell Oil
 - 7.2.2. Cardanol
 - 7.3. PROPERTIES
 - 7.4. COMPOSITION OF CASHEW NUT
 - 7.5. PROPERTIES OF CNSL RESIN
 - 7.6. APPLICATION OF CNSL RESIN
 - 7.7. CHEMICAL COMPOSITION OF CNSL
 - 7.7.1. Separation of Cardanol from CNSL Oil
 - 7.7.2. Feasibility of Cardanol for Biofuel
 - 7.8. B.I.S. SPECIFICATIONS
 - 7.9. MANUFACTURING PROCESS
 - 7.9.1. Cashew Nut Shell Oil Processing
 - 7.9.2. Process Flow Diagram of Cashew Nut Shell Oil
 - 7.9.3. Cardanol Processing from CNSL
 - 7.9.4. Process Flow Diagram of Cardanol

- 7.10. QUALITY CONTROL & STANDARDS
 - 7.10.1. Untreated Cashew Nut Shell Liquid
 - 7.10.2. Treated Cashew Nut Shell Liquid
 - 7.10.3. Cold Pressed Cashew Nut Shell Liquid
 - 7.10.4. Machine Performance Evaluation
 - 7.10.5. Extraction Efficiency
- 7.11. ENVIRONMENT POLLUTION AND EFFLUENT TREATMENT
 - 7.11.1. Effluent Treatment Plant Equipment
- 7.12. PLANT ECONOMICS
- 8. RICE POWDER, PUTTU AND WHEAT POWDER 120
 - 8.1. INTRODUCTION
 - 8.1.1. Wheat Flour
 - 8.1.2. Wheat Varieties
 - 8.1.3. Benefits
 - 8.1.4. Health Benefits
 - 8.2. USES
 - 8.2.1. Health Benefits of Rice Flour
 - 8.2.2. Gluten-Free
 - 8.2.3. Protein
 - 8.2.4. Fiber
 - 8.3. MANUFACTURING PROCESS
 - 8.3.1. Rice Flour
 - 8.3.2. Puttu
 - 8.3.3. Production Process for Puttu
 - 8.4. PLANT ECONOMICS
- 9. FRUCTOSE SYRUP FROM BROKEN RICE 129
 - 9.1. INTRODUCTION
 - 9.2. PROPERTIES
 - 9.3. USES AND APPLICATIONS
 - 9.4. RAW MATERIAL
 - 9.5. MANUFACTURING PROCESS
 - 9.6. PROCESS FLOW DIAGRAM
 - 9.7. PLANT ECONOMICS
- 10. POTATO POWDER, GRANULES AND PELLETS 135
 - 10.1. INTRODUCTION
 - 10.1.1. Potato Powder
 - 10.1.2. Potato Granules
 - 10.1.3. Potato Pellets
 - 10.2. PROPERTIES
 - 10.2.1. Potato Powder
 - 10.2.2. Potato Granules

- 10.2.3. Potato Pellets
- 10.3. USES
 - 10.3.1. Potato Powder
 - 10.3.2. Potato Granules
 - 10.3.3. Potato Pellets
- 10.4. BENEFITS
 - 10.4.1. Potato Powder
 - 10.4.2. Potato Granules
 - 10.4.3. Potato Pellets
- 10.5. VARIETY OF INDIAN POTATO
- 10.6. RAW MATERIAL DETAILS
- 10.7. MANUFACTURING PROCESS
 - 10.7.1. Potato Powder
 - 10.7.2. Potato Granules
 - 10.7.3. Potato Pellets
 - 10.7.4. Basic Raw Material Required:
- 10.8. PROCESS FLOW DIAGRAM
 - 10.8.1. Potato Powder
 - 10.8.2. Potato Granules
 - 10.8.3. Potato Pellets
- 10.9. FOOD SAFETY REQUIREMENTS & STANDARD REQUIRED
- 10.10. WASTE COLLECTION AND MANAGEMENT PROCEDURES
 - 10.10.1. Major Waste Generating Activities
 - 10.10.2. Waste Management Practices
- 10.11. POLLUTION PREVENTION AND CONTROL
- 10.12. PLANT 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, directories, 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 bureaus, consultants and consultancy firms as one of the inputs in their research.