Manufacture of Indian Kitchen Spices (Masala Powder)

with Formulations, Processes and Machinery Details

(Chaat Masala, Sambar Masala, Pav Bhaji Masala, Garam Masala, Goda masala, Pani Puri Masala, Kitchen King Masala, Thandai Masala Powder, Meat Masala, Rasam Powder, Kesari Milk Masala, Punjabi Chole Masala, Shahi Biryani Masala, Tea Masala Powder, Jaljeera Masala, Tandoori masala, Fish Curry Masala, Chicken Masala, Pickle Masala, Curry Powder)







Introduction

Spices or Masala as it is called in Hindi, may be called the "heartbeat" of an Indian kitchen. The secret ingredient that makes Indian food truly Indian is the generous use of signature spices. From ancient times of the maharaja's, spices have added unforgettable flavours and life to Indian cuisine. Indian spices offer significant health benefits and contribute towards an individual's healthy life. They add flavor and nutrients to dishes without fat or calories! A spice may be available in several forms: fresh, whole dried, or pre-ground dried. Generally, spices are dried.



A spice is a seed, fruit, root, bark, berry, bud or other vegetable substance primarily used for flavoring, coloring or preserving food. Spices are distinguished from herbs, which are parts of leafy green plants used for flavoring or as a garnish. Many spices have antimicrobial properties. Spices produce a vast and diverse assortment of organic compounds, the great majority of which do not appear to participate directly in growth and development.

There are a large number of various spices, used along with food such as Chilli (Mirchi), Turmeric (Haldi), Coriander (Dhania), Cumin (Jeera), Mustard (Rai), Fenugreek (Methi),



Sesame (Til), Cardamon, Peppercorns (Kali Mirchi), Clove, Fennel (Saunf), Nutmeg and Mace etc. These spices give taste to the prepared food and at the same time give attractive colours and smell to the food.

Today, Indian spices are the most sought-after globally, given their exquisite aroma, texture, taste and medicinal value. India has the largest domestic market for spices in the world. Traditionally, spices in India have been grown in small land holdings, with organic farming gaining prominence in recent times. India is the world's largest producer, consumer and exporter of spices. Demand for Indian spices is high because they are clean and hygienic as compared to that of other countries.



In modern times, international trade in spices and condiments have increased dramatically which could be attributed to several factors including rapid advances in transportation, permitting easy accessibility to world markets, growing demand from industrial food manufacturers of wide ranging convenience foods which are either ready to eat or requiring minimal preparation time in the household, migration of large number of people of different ethnicity with their traditional food habits, to meet the changing requirements of industry and commerce and exposure to culinary delicacies of other regions of the world by increasing business and tourism travel. As the demand for Indian spices is increasing day by day, Indian manufacturers are producing spices of high quality.



The book presents the fundamental concepts of Spices (Masala Powder) Indian Kitchen Spices product mix in a manner that new entrepreneurs can understand easily. It covers Formulation for spices i.e., Chaat Masala, Chana Masala, Sambar Masala, Pav Bhaji Masala, Garam Masala, Goda Masala, Pani Puri Masala, Kitchen King Masala, Thandai Masala Powder, Meat Masala, Rasam Powder, Kesari Milk Masala, Punjabi Chole Masala, Shahi Biryani Masala, Tea Masala Powder, Jaljeera Masala, Tandoori Masala, Fish Curry Masala, Chicken Masala, Pickle Masala, Curry Masala.



This book contains manufacturing process, Packaging and Labelling of Spices. The highlighting segments of this book are Spices Nutritional value, Special Qualities and Specifications, Cryogenic Grinding Technology, Food Safety & Quality, BIS Specifications, Quality Control, Market, Sample Production Plant Layout and Photograph of Machinery with Supplier's Contact Details. It also covers Good manufacturing practices in Food Industry, Case Study for Everest and MDH Masala and Top Spice Brands of India.

This book is aimed for those who are interested in Spices business, can find the complete information about Manufacture of Indian Kitchen Spices (Masala Powder). It will be very informative and useful to consultants, new entrepreneurs, startups, technocrats, research scholars, libraries and existing units.



Table of Contents

1. How to Start Spice Business

Introduction

Licenses and Marketing Strategies

Wholesale Resources and Pricing

Places to Sell and Business Account

Basic Business Requirements

How to Increase Revenue as a Spice Entrepreneur

- (i) Expand Product Line
- (ii) Internet Marketing
- (iii) PR & Thought Leadership

Successful Business Plans for Spices Businesses

- (i) Check Out the Competition
- (ii) Finding a Non-Competitive Business Mentor
- (iii) Acquisitions vs. Startups
- (iv) Consider Franchising



List of Subsidy and Schemes

- (i) Subsidy for Sending Spices Samples Abroad
- (ii) Subsidy for Printing Promotional Literature/Video/ Brochures
- (iii) Subsidy for Promotion of Indian Spice Brand Abroad
- (iv) Subsidy for Spices Processing in North-Eastern Region
- (v) Subsidy for Participating in International Trade Fairs and Meetings

Home Based Spice Business - Manufacturing Process

- (i) Market Opportunity
- (ii) Different Products
- (iii) Registration & License

2. Spices

Introduction
Basic Uses for Spices
List of Major Indian Spices



Uses & Application of Spices
Masala
Spice Blends
Adherence to High Spice Quality Standards
Properties of Spices
Major Compounds in Spices

3. Whole Spices

Chilli (Mirch) Powder

Turmeric (Haldi) Powder

Coriander (Dhania) Powder

Cumin (Jeera)

Mustard (Rai)

Fenugreek (Methi)

Sesame (Til)

Cardamom

Peppercorns (Kali Mirchi)

Fennel (Saunf)

Nutmeg and Mace



4. Nutritional Value of Different Spices

Anise Seed

Allspice

Bay leaf (Laurus Nobilis)

Black Pepper

Capparis Spinosa

Caraway Seed

Cardamom

Cayenne Peppers (Capsicum Annuum var. Annuum)

Cinnamon Spice (Cinnamonum Verum)

Cloves (Sygizium Aromaticum), Ground

Coriander Seeds (Coriander Sativum)

Cumin Seeds (Cuminum Cyminum)

Fennel Seed (Foeniculum Vulgare)

Fenugreeks (Trigonella Foenum-Graecum)

Benefits of Including Spices in Our Diet

Culinary Uses of Spices



5. Spice Qualities and Specifications

Specification of Spice-Exporting Nations

- (i) The Indian Standards Institution
- (ii) Directorate of Marketing and Inspection, Administering Quality Control and Preshipment Inspection
- (iii) Grade Specifications for Sarawak Pepper in Malaysia
- (iv) Grading of Nutmeg in Grenada and Indonesia
- (v) Specification of Paprika in Hungary and Spain
- (vi) Specifications of Other Exporting Nations Spice Quality

A. Insect Infestation

- (i) Harmful Insects
- (ii) Fumigation for Insects
- (iii) Other Ways of Exterminating Insects

B. Microorganisms

- (i) Types of Microbes
- (ii) Molds and Aflatoxin



- C. Sterilizing or Pasteurizing Methods
 - (i) Ethylene Oxide Gas Method
 - (ii) Irradiation
 - (iii) Steam Sterilization
- D. Chemical Properties
 - (i) Pungency Standards
 - (ii) Flavor/Aroma
 - (iii) Color

6. Manufacturing Process of Blend Spices

Cleaning

Drying

Grading

Roasting

Pulverizing

For Grinding the Spices Following Machines are Used

List of Machinery Required

Process Flow Diagram



7. Cryogenic Grinding Technology

Introduction

Market Opportunities

Advantages

Role of Carbon Di-oxide in Spice Processing Industry

Fine Grinding Using Cryogenic Grinding Technology

Fine Powders With a Big Impact

8. Formulation of Spices (Masala Powder) Indian Kitchen Spices Product Mix

Manufacture of Indian Kitchen Spices Product Mix

Chaat Masala

Chana Masala

Sambar Masala

Pav Bhaji Masala

Garam Masala

Goda Masala

Pani Puri Masala



Kitchen King Masala Thandai Masala Powder Meat Masala Rasam Powder Kesari Milk Masala Punjabi Chole Masala Shahi Biryani Masala Tea Masala Powder Jaljeera Masala Tandoori Masala Fish Curry Masala Chicken Masala Pickle Masala Curry Masala

9. Food Safety & Quality

General Principles of Food Safety

(i) General Principles to be Followed in Administration of Act



- (ii) Hygiene and Health Requirements
- (iii) Communicable Diseases and Injuries
- (iv) General Food Hygiene Training
- (v) Safety during Packaging and Labelling of Foods

Restrictions of Advertisement and Prohibition as to Unfair Trade Practices

10. Quality Control

Quality Assurance in Raw Material Supply

Quality Assurance and Control in the Processing Plant

- (i) Appearance and Presence of Contaminants
- (ii) Odour and Flavour
- (iii) Moisture Content
- (iv) Control of Processing
- (i) Washing
- (ii) Other Cleaning Methods
- (iii) Drying
- (iv) Grinding



- (v) Packaging and Storage of Finished Products
- 1. Acidity Measurement
- 2. Chlorine Measurement
- 3. Fill-Weight Measurement
- 4. Glass Container Measurement
- 5. Weight of Containers
- 6. Capacity of Containers
- 7. Headspace
- 8. Vacuum
- 9. Dimensions of Containers
- 10. Faults in Glass
- 11. Label Measurement and Quality Checks
- 12. Label Faults may be Divided into Major and Minor Faults
- 13. Loaf Volume Measurement
- 14. Moisture Content Measurement
- 15. Moisture Content Measurement: Spices
- 16. Solids Content Measurement



- 17. Packaging Film Measurement
- 18. pH Measurement
- 19. Plastic Container Measurement
- 20. Salt Measurement
- 21. Sieving Tests (Flours and Spices)
- 22. Filth Test
- 23. Sodium Benzoate Measurement
- 24. Sodium Metabisulphite Measurement
- 25. Starch Gelatinization Measurement (Modified 'Falling Number' Method)

11. Packaging and Labelling of Spices

Spoilage Factors

- (i) Moisture Content
- (ii) Loss of Aroma/Flavour
- Discolouration
- (i) Insect Infestation



- (ii) Microbial Contamination
- (iii) Spices Packaging Requirement
- Packaging Material Requirement
- Packaging Method and Materials for Spices
- Types of Packing
- (i) Bulk Packaging
- (ii) Institutional Packages
- (iii) Consumer Packages
- (iv) Composite Containers and Plastic Pouches for Whole Spices & Powders
- (v) Spices Packed in Pouch-in-Carton
- Marking of Masala Packets
- Special Conditions for Grant of Certificate of Authorisation

12. BIS Specifications



13. Top 10 Spice Brands of India

Everest

MDH

Catch

Mothers Recipe

Cookme

Priya

Pushp

Ramdev

Nilon's

14. Market of Spices

The Indian Spices Industry

Adherence to High Spice Quality Standards

India's Spice Parks

Product Range in Indian Market



15. Case Study for Everest Masala

History

Product

Brand

Achievements

Market

16. Case Study for MDH Masala

History

Products

- (i) Ground Single Spices
- (ii) Blended Spices

Market

17. Good Manufacturing Practices in Food Industry

Food Industry Standards
GMP Practices for Food



- (i) Design and Facilities
- (ii) Premises and Rooms
- (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



(iii) Waste Management
(iii) Personal Hygiene
Quality Control
Transportation
Product Information and Consumer Awareness
Competence & Training
Temporary/Mobile Premises, Vending Machines

18. Sample Spices Production Plant Layout Need of Plant Layout Workplace Types

- 19. Suppliers of Whole Spices
- 20. Photographs of Machinery with Supplier's Contact Details



Tags

Agro Based Small Scale Industries Projects, Business Plan for a Startup Business, Business start-up, Chili powder project report, Chilly Powder Processing: Small Business Project, Cryogenic grinding of spices in India, Cryogenic Grinding Technology, Cryogenic spice grinding, Different types of masala powder, Feasibility report on masala powder Production unit, Food Processing & Agro Based Profitable Projects, Formulation of Spices Masala Powder, How to make masala powder, How to Start a Home Based Spice Business in India, How to start a masala powder Production Business, How to start a masala powder Production plant?, How to Start a Spice Manufacturing and Packaging Business, How to start a successful masala powder business, Indian Kitchen Spices Product Mix, Indian Kitchen Spices Product Mix manufacturing, Indian Kitchen Spices Product Mix Production, Indian spices and their uses, Indian spices list, Industrial Project Report, List of all spices used in Indian cooking, Manufacturing Process of Masala Manufacturing, masala making business, Masala Making Unit, Masala powder making machine factory, Masala powder Making Small Business Manufacturing, masala powder manufacturing plant, Masala powder Manufacturing Business, masala powder mill project, Spice Based Profitable Projects, Masala powder Processing Industry in India,



Most Profitable Food Processing Business Ideas, Most Profitable masala powder Processing Business Ideas, Pre-Investment Feasibility Study on masala powder project, Preparation of Project Profiles, Profitable small and cottage scale industries, Profitable Small Scale Spice powder manufacturing unit, Project consultancy, Project consultant, Project for startups, Masala Making Unit (Small), Spice powder Production plant, masala powder manufacturing plant, masala powder manufacturing plant, spices manufacturing industries, Setting up and opening your Spice Business, Setting up of masala powder Processing Units, Small scale Commercial masala powder making, Small Scale Food Processing Projects, Small Scale masala powder manufacturing Projects, Small scale masala powder production line, Spice Based Small Scale Industries Projects, Spice Grinding & Packaging, spice manufacturing plant project report, Spice Powder -Masala Powder, Spice Processing Plant, Spice Plants, Spices Unit, Spice production: Pre-packaging to packaging processes, Spices and packaging with formulas, Spices Cryo-grinding unit, Spices grinding project report, Start up India, Stand up India, Starting a masala powder manufacturing Business, Start-up Business Plan for masala powder processing plant, Startup Project for masala powder manufacturing plant, Uses of spices,



Niir Project Consultancy Services (NPCS) can provide Process Technology Book on Manufacture of Indian Kitchen Spices (Masala Powder) with Formulations, Processes and Machinery Details

See more

https://goo.gl/dVn07J

https://goo.gl/eQuRSO

https://goo.gl/6N2Tp4

https://goo.gl/fpXOym



VISIT US AT

www.entrepreneurindia.co



Take a look at Niir Project Consultancy Services on #Street View

https://goo.gl/VstWkd

Locate us on

Google Maps

https://goo.gl/maps/BKkUtq9gevT2



OUR CLIENTS

Our inexhaustible Client list includes public-sector companies, Corporate Houses, Government undertaking, individual entrepreneurs, NRI, Foreign investors, non-profit organizations and educational institutions from all parts of the World. The list is just a glimpse of our esteemed & satisfied Clients.

Click here to take a look https://goo.gl/G3ICjV



Free Instant Online Project Identification & Selection Search Facility

Selection process starts with the generation of a product idea. In order to select the most promising project, the entrepreneur needs to generate a few ideas about the possible projects.

Here's we offer a best and easiest way for every entrepreneur to searching criteria of projects on our website www.entrepreneurindia.co that is "Instant Online Project Identification and Selection"



NPCS Team has simplified the process for you by providing a "Free Instant Online Project Identification & Selection" search facility to identify projects based on multiple search parameters related to project costs namely: Plant & Machinery Cost, Total Capital Investment, Cost of the project, Rate of Return% (ROR) and Break Even Point % (BEP). You can sort the projects on the basis of mentioned pointers and identify a suitable project matching your investment requisites.

Click here to go

http://www.entrepreneurindia.co/project-identification



Contact us

Niir Project Consultancy Services

106-E, Kamla Nagar, Opp. Spark Mall,

New Delhi-110007, India.

Email: <u>npcs.ei@gmail.com</u>, <u>info@entrepreneurindia.co</u>

Tel: +91-11-23843955, 23845654, 23845886, 8800733955

Mobile: +91-9811043595

Fax: +91-11-23845886

Website: <u>www.entrepreneurindia.co</u>, <u>www.niir.org</u>

Take a look at NIIR PROJECT CONSULTANCY SERVICES on

#StreetView

https://goo.gl/VstWkd



NIIR PROJECT CONSULTANCY SERVICES

AN ISO 9001:2008 COMPANY



Who are we?

- One of the leading reliable names in industrial world for providing the most comprehensive technical consulting services
- We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad



We at NPCS want to grow with you by providing solutions scale to suit your new operations and help you reduce risk and give a high return on application investments. We have successfully achieved top-notch quality standards with a high level of customer appreciation resulting in long lasting relation and large amount of referral work through technological breakthrough and innovative concepts. A large number of our Indian. Overseas and NRI Clients have appreciated our expertise for excellence which speaks volumes about our commitment and dedication to every client's success.



We bring deep, functional expertise, but are known for our holistic perspective: we capture value across boundaries and between the silos of any organization. We have proven a multiplier effect from optimizing the sum of the parts, not just the individual pieces. We actively encourage a culture of innovation, which facilitates the development of new technologies and ensures a high quality product.



What do we offer?

- Project Identification
- Detailed Project Reports/Pre-feasibility Reports
- Business Plan
- Industry Trends
- Market Research Reports
- Technology Books and Directory
- Databases on CD-ROM
- Laboratory Testing Services
- Turnkey Project Consultancy/Solutions
- O Entrepreneur India (An Industrial Monthly Journal)

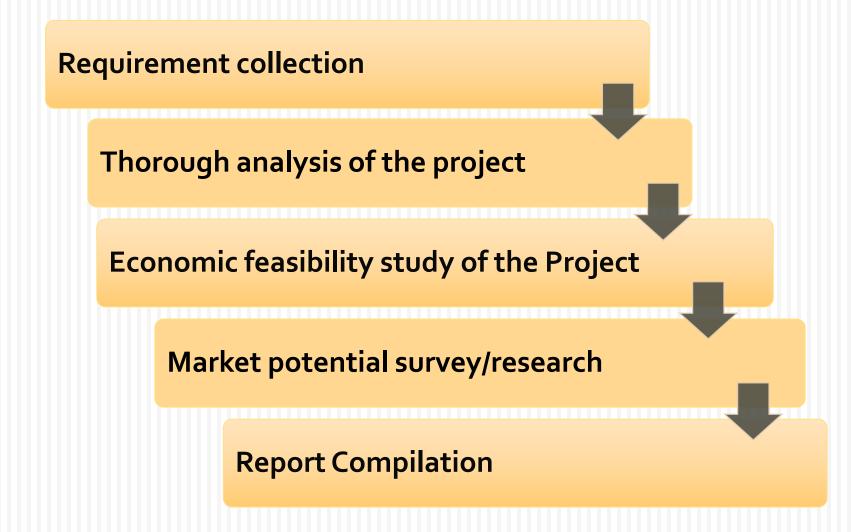


How are we different?

- We have two decades long experience in project consultancy and market research field
- We empower our customers with the prerequisite know-how to take sound business decisions
- We help catalyze business growth by providing distinctive and profound market analysis
- We serve a wide array of customers, from individual entrepreneurs to Corporations and Foreign Investors
- We use authentic & reliable sources to ensure business precision



Our Approach





Who do we serve?

- Public-sector Companies
- Corporates
- Government Undertakings
- Individual Entrepreneurs
- O NRI's
- Foreign Investors
- Non-profit Organizations, NBFC's
- Educational Institutions
- Embassies & Consulates
- Consultancies
- Industry / trade associations



Sectors We Cover

- O Ayurvedic And Herbal Medicines, Herbal Cosmetics
- Alcoholic And Non Alcoholic Beverages, Drinks
- O Adhesives, Industrial Adhesive, Sealants, Glues, Gum & Resin
- Activated Carbon & Activated Charcoal
- Aluminium And Aluminium Extrusion Profiles & Sections,
- O Bio-fertilizers And Biotechnology
- Breakfast Snacks And Cereal Food
- O Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling



- Bamboo And Cane Based Projects
- Building Materials And Construction Projects
- Biodegradable & Bioplastic Based Projects
- Chemicals (Organic And Inorganic)
- Confectionery, Bakery/Baking And Other Food
- Cereal Processing
- Coconut And Coconut Based Products
- Cold Storage For Fruits & Vegetables
- Coal & Coal Byproduct



- Copper & Copper Based Projects
- Dairy/Milk Processing
- O Disinfectants, Pesticides, Insecticides, Mosquito Repellents,
- Electrical, Electronic And Computer based Projects
- O Essential Oils, Oils & Fats And Allied
- Engineering Goods
- Fibre Glass & Float Glass
- Fast Moving Consumer Goods
- Food, Bakery, Agro Processing



- Fruits & Vegetables Processing
- Ferro Alloys Based Projects
- Fertilizers & Biofertilizers
- Ginger & Ginger Based Projects
- Herbs And Medicinal Cultivation And Jatropha (Biofuel)
- Hotel & Hospitability Projects
- Hospital Based Projects
- Herbal Based Projects
- Inks, Stationery And Export Industries



- Infrastructure Projects
- Jute & Jute Based Products
- Leather And Leather Based Projects
- Leisure & Entertainment Based Projects
- Livestock Farming Of Birds & Animals
- Minerals And Minerals
- Maize Processing(Wet Milling) & Maize Based Projects
- Medical Plastics, Disposables Plastic Syringe, Blood Bags
- O Organic Farming, Neem Products Etc.



- O Paints, Pigments, Varnish & Lacquer
- O Paper And Paper Board, Paper Recycling Projects
- Printing Inks
- Packaging Based Projects
- O Perfumes, Cosmetics And Flavours
- O Power Generation Based Projects & Renewable Energy Based Projects
- Pharmaceuticals And Drugs
- O Plantations, Farming And Cultivations
- O Plastic Film, Plastic Waste And Plastic Compounds
- O Plastic, PVC, PET, HDPE, LDPE Etc.



- Potato And Potato Based Projects
- Printing And Packaging
- O Real Estate, Leisure And Hospitality
- Rubber And Rubber Products
- Soaps And Detergents
- Stationary Products
- Spices And Snacks Food
- Steel & Steel Products
- Textile Auxiliary And Chemicals



- O Township & Residential Complex
- Textiles And Readymade Garments
- Waste Management & Recycling
- Wood & Wood Products
- Water Industry(Packaged Drinking Water & Mineral

Water)

Wire & Cable



Contact us

Niir Project Consultancy Services

106-E, Kamla Nagar, Opp. Spark Mall,

New Delhi-110007, India.

Email: <u>npcs.ei@gmail.com</u>, <u>info@entrepreneurindia.co</u>

Tel: +91-11-23843955, 23845654, 23845886, 8800733955

Mobile: +91-9811043595

Fax: +91-11-2385886

Website: <u>www.entrepreneurindia.co</u>, <u>www.niir.org</u>

Take a look at NIIR PROJECT CONSULTANCY SERVICES on

#StreetView

https://goo.gl/VstWkd



Follow Us







<u>https://www.facebook.com/NIIR.ORG</u>



<u>https://www.youtube.com/user/NIIRproject</u>



> https://plus.google.com/+EntrepreneurIndiaNewDelhi

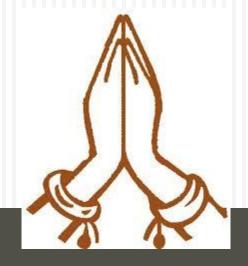


> https://twitter.com/npcs_in



https://www.pinterest.com/npcsindia/





THANK YOU!!!

For more information, visit us at:

www.entrepreneurindia.co

www.niir.org

