Start a Small & Medium Scale Industry or a Good Profitable Business.

Investment Opportunities in Biotechnology Industry













Introduction

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The large number of small and medium enterprises (SMEs) greatly contributes to the economic growth and industrial progress of developing countries. Small and Medium Enterprises (SMEs) are very crucial to the development of a country's economy. Especially India has always been in the limelight in terms SME business.

The SME business opportunity in India can be seen in possibly every sector - financial services, telecom, education, automobiles, media, food, real estate and so on. This makes India a hub for best small business opportunity in various segments.



<u>SME and Indian Economy</u>

Small and medium sized enterprises play a central role in the Indian economy. They are a major source of entrepreneurial skills, innovation and employment. SME businesses are the biggest contributor to the economy of any country and the same goes with Indian economy. In fact, SME is one of the most crucial sectors of Indian economy as far as the number of employments generated from this segment. As more than 65% of Indian population lives in rural and semi-rural areas, small business becomes a major source of income for many residing in these areas. After agriculture, small business in India is the second largest employer of human resources.



The SME business market of India is large and bubbling with newer opportunities. Increased purchasing power and consumerism is what drives the business scenario in India. Thus, there is an opportunity for competitive advantage that can benefit investors and entrepreneurs to a large extent. An investment in any best small business opportunity promises lucrative returns and success in less time.





Biotechnology

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The biotechnology sector of India is highly innovative and is on a strong growth trajectory. The sector, with its immense growth potential, will continue to play a significant role as an innovative manufacturing hub. The sector is one of the most significant sectors in enhancing India's global profile as well as contributing to the growth of the economy. The Indian biotech industry holds about 2 per cent share of the global biotech industry.

The biotechnology industry in India, comprising about 800 companies, is expected to be valued at US\$ 11.6 billion in 2017.



India is among the top 12 biotech destinations in the world and ranks third in the Asia Pacific. The growth is due to a range of positive trends such as growing demand for healthcare services, increase demand for food & nutrition intensive R&D activities and strong government initiatives.

Biotechnology has a long history of use in food production and processing. It has helped to increase crop productivity by introducing such qualities as disease resistance and increased drought tolerance to the crops.





Biotechnology used in processing of wines, beers, Coffee, Tea, Cabbage and Cucumber, etc. Fermentation is biotechnology in which desirable microorganisms are used in the production of value-added products of commercial importance. The products of fermentation are many: alcohol and carbon dioxide are obtained from yeast fermentation of various sugars. Lactic acid, acetic acid and Organic acid are products of bacteria action; citric acid, D-Gluconic acid, Coffee, Tea, Cabbage & Cucumber and Yeasts are some of the products obtained from fermentation.



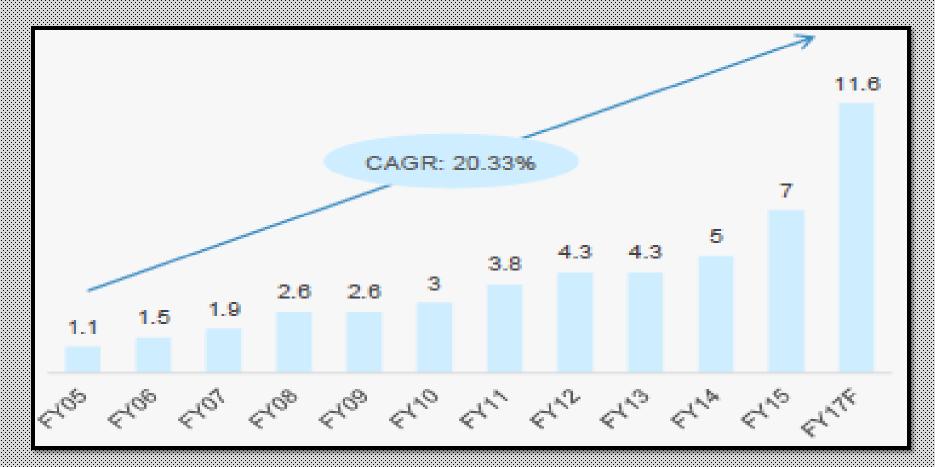


The worldwide demand for biotech products is the only indication; the speed of its advance is the only set to accelerate. Indian Biotechnology industry is considered as one of the sunrise sectors in India. The industry is divided into five major segments: Bio-Pharma, Bio-Services, Bio-Agri, Bio-Industrial and Bio-Informatics. Biotechnology industry's growth in India is primarily driven by vaccines and recombinant therapeutics.





Market Size (USD Billion)





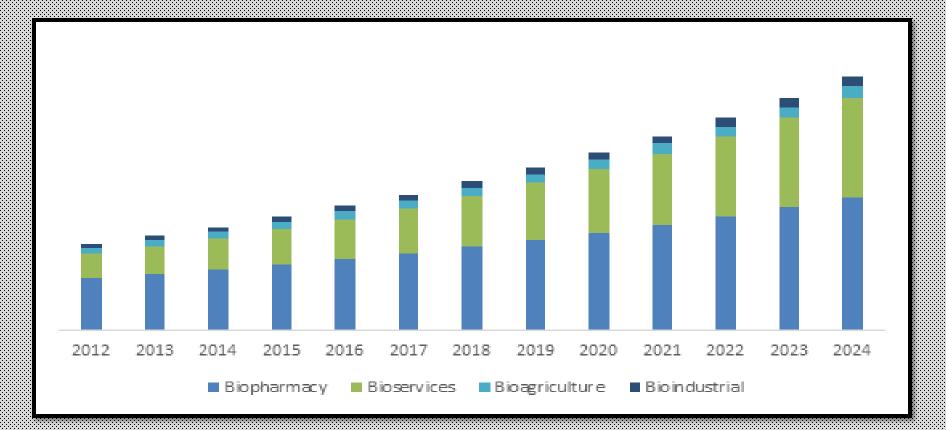
Biotechnology Market size was valued at over USD 330.3 billion in 2015 and will exceed USD 775.2 billion with 9.9% CAGR from 2016 to 2024.



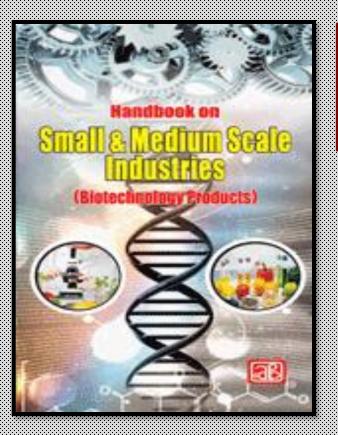


U.S. Biotechnology Market Size, by Application, 2012-2024

(USD Million)







<u>Handbook on Small & Medium Scale</u> <u>Industries (Biotechnology Products)</u>

https://goo.gl/5mwuN2





About the Book:

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The Indian biotechnology industry is one of the fastest growing knowledge-based sectors in India and is expected to play an important role in small & medium enterprises industries. Biotechnology is not just one technology, but many. There are a wide variety of products that the biotechnology field has produced. Biotechnology as well all know, is the field of combination of various fields such as genetics, environmental biology, biochemistry, environmental, general, agriculture, fermentation, etc.



Biotechnology has a long history of use in food production and processing. It has helped to increase crop productivity by introducing such qualities as disease resistance and increased drought tolerance to the crops. Biotechnology used in processing of wines, beers, Coffee, Tea, Cabbage and Cucumber, etc. Fermentation is biotechnology in which desirable microorganisms are used in the production of value-added products of commercial importance. The products of fermentation are many: alcohol and carbon dioxide are obtained from yeast fermentation of various sugars. Lactic acid, acetic acid and Organic acid are products of bacteria action; citric acid, D-Gluconic acid, Coffee, Tea, Cabbage & Cucumber and Yeasts are some of the products obtained from fermentation.



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The biotechnology sector of India is highly innovative and is on a strong growth trajectory. The sector, with its immense growth potential, will continue to play a significant role as an innovative manufacturing hub. The high demand for different biotech products has also opened up scope for the foreign companies to set up base in India. Today in India there are more than 350 Biotechnology companies in India providing employment for over 20,000 scientists.





The authors cover different aspects of biotechnology such as production of fermented foods, functional foods, enzymes in food processing. The Book contains production of Wines and Beers, Production of Amino Acids, Lactic Acid, Acetic Acid and Organic Acid, Processing of Coffee, Tea, Cabbage, Cucumber, Yeasts and Photographs of Plant & Machinery with Supplier's Contact Details.

The book provides a better understanding about biotechnology production of value-added products, improve productivity, and enhance product quality in the agro food processing sector. The book is highly recommended to new entrepreneurs, professionals, existing units who wants to start manufacturing business of biotechnology products.





WINE

INTRODUCTION

YEASTS AND THE ALCOHOLIC FERMENTATION

A. Yeasts

- 1. Taxonomy, ecology
- 2. Industrially important yeasts
- 3. Killer (K) Yeasts
- 4. Effect of yeasts on the organoleptic character of wines.

B. YEAST NUTRIENTS IN GRAPE MUSTS



- 1. Composition of grape musts
- 2. Nutritional requirements of yeast and their provision in musts

C. GROWTH OF YEASTS AND ALCOHOLIC FERMENTATION

- 1. Growth cycle of yeasts and kinetics of the fermentation
- 2. Fermentation problems and their causes
- 3. Stimulation of the fermentation
- 4. Concept of the survival factor

D. BIOCHEMISTRY OF THE FERMENTATION OF GRAPE MUST

- 1. Primary and secondary products
- 2. Volatile substances contributing to the aroma of wine



LACTIC ACID BACTERIA AND THE MALO-LACTIC FERMENTATION

A. LACTIC ACID BACTERIA OF WINES

- 1. Taxonomy
- 2. Ecology
- 3. The role of lactic acid bacteria in vinification

B. BACTERIAL GROWTH AND MALO-LACTIC FERMENTATION

1. Development of lactic acid bacteria during vinification; kinetics and biochemistry of the malolactic fermentation



- 2. Parameters affecting the development of lactic acid bacteria in wines
- 3. Stimulation of bacterial growth and of the malo-lactic fermentation

BACTERIAL SPOILAGE OF WINES

A. SPOILAGE BY LACTIC ACID BACTERIA

B. SPOILAGE BY ACETIC ACID BACTERIA

1. Taxonomy, ecology

2. Effect of the metabolism of acetic acid bacteria on the quality of musts and wine



WINE TECHNOLOGY

A. GRAPES AND CORRECTIVE MEASURES FOR THE VINTAGE

B. CLASSIC FERMENTATIONS

- 1. White wine production
- 2. Red wine production

C. BIOLOGICAL STABILIZATION OF THE WINE; THE ROLE OF SULFUR DIOXIDE AND SORBIC ACID

special processes Sparkling Wines



SHERRY AND PORT

Brandy

2. BEER

HISTORICAL

A. Man's First Alcoholic Drink

B. Man's Earliest Brewing

- 1. Mesopotamia and Egypt
- 2. Greece and Rome



- 3. European tribes
- 4. Africa
- 5. China
- 6. India
- 7. South America

C. Ancient Brewing and Nutrition

- **D. Sanitary Considerations**
- E. Large-Scale Brewing
- **BEER TYPES IN THE WORLD**
- **A. Classical Beer Types**



B. Beer-Like Beverages

C. Beer Production in the world

BEER CONSTITUENTS

- A. Water
- **B. Alcohol**
- **C. Carbohydrates**
- **D. Nitrogen Compounds**
- **E. Inorganic Constituents**
- F. Organic Acids
- **G.** Carbon Dioxide
- **H. Other Compounds**



MATERIALS USED IN BREWING

A. WATER

- 1. Water sources
- 2. Water purity
- 3. Water minerals
- 4. Heavy metals

B. BARLEY AND MALT

Barley
 (a) Harvest and Storage
 (b) Weathering
 Malt
 (a) Earliest Malt



(b) The malting process todaySteepingGerminationKilning

C. BREWING ADJUNCTS

D. HOPS

- 1. Earliest use of hops
- 2. The Hop Family
- 3. Hop Utilization
- 4. Hop Chemistry

E. BREWER'S YEAST



CHARACTERISTICS AND CLASSIFICATION

1. Cell morphology and Physiology

2. Yeast Metabolism

(a) Carbohydrate Metabolism Glycolyses
The Pasteur and Crabtree Effect
(b) Metabolism of Nitrogenous Compounds
(c) Lipid synthesis
(d) Sterol Synthesis
(e) Sulfur Compounds
(f) Miscellaneous Metabolic Reactions



THE BREWING PROCESS

A. Brew house Operations

1. Milling

(a) Malt Milling(b) Wet Milling(c) Adjunct Milling

2. Mashing

(a) Infusion Mashing
(b) Decoction Mashing
(c) Malt Conversion
(d) Adjunct Conversion
(e) Enzyme Activity During Mashing



3. Lautering

- (a) The Lauter Tub
- (b) Run Off
- (c) Sparging
- (d) Wort Filtration
- (e) Spent Grain Removal

4. Wort Boiling

(a) Heating

- (b) Function of Wort Boiling
- (c) Hop Extraction and Conversion
- (a) Hot Trub

5. Wort Cooling/Trub Removal



6. BREWHOUSE AND CELLAR SANITATION

(a) General Practices(b) Microbiological Precautions

B. WORT CONSTITUENTS

- 1. Carbohydrates
- 2. Nitrogenous Compounds
- 3. Inorganic Constituents
- 4. Vitamins
- 5. Polyphenols
- 6. Hop Compounds
- 7. Melanoidins and Phenolic Pigments
- 8. Lipids



C. CELLAR OPERATIONS

1. Cold Wort Aeration

2. Yeast Pitching

(a) Yeast Examination(b) Yeast Population Count

3. PRIMARY FERMENTATION

(a) Lager Fermentation(b) High Gravity Brewing(c) Ale Fermentation(d) Reuse of Yeast(g) CO2Recovery



4. YEAST RECOVERY AND REUSE

Washing and Preparation

5. YEAST PURE CULTURE SYSTEMS

(a) Culture Propagation(b) Laboratory Checks

6. AGING AND FINISHING

- (a) Flavor Maturation
- (b) Carbonation
- (c) Standarization
- (d) Chillproofing and Stabilizing
- (e) Clarification



MICROBIAL CONTAMINANTS IN BEER

A. Bacterial Contaminants

1. Gram Positive Bacteria

(a) Lactobacillus(b) Pediococcus(c) Miscellaneous Cocci

2. Gram Negative Bacteria

- (a) Acetic Acid Bacteria
- (b) Zymomonas
- (c) Enterobacteriaceae
- (d) Miscellaneous Wort Organisms



B. WILD YEAST CONTAMINANTS

- 1. Beer Spoiling Yeasts
- 2. Yeast Spoilage Flavors
- 3. Killer Yeasts
- 4. Wild Yeast Control Measures

C. BREWERY PREVENTIVE MEASURES

PACKAGING OPERATIONS

A. Bottling Operations

- 1. Filling
- 2. Pasteurization
- 3. Light Struck Beer



B. CANNED BEER

- 1. Can Filling
- 2. Pasteurization
- 3. Shelf Life of Packaged Beer
- (a) Oxygen
- (b) Temperature

C. DRAFT BEER

- 1. Cooperage
- 2. Racking

QUALITY ASSURANCE

A. Physical and Chemical Measurements

1. Cleaning and Sanitation





- 2. Raw Materials Acceptability
- 3. Biological Survey of Beer "in process"
- 4. Analysis of the Finished Beer

B. Flavor Measurements

Tasting beer

C. Tastable Beer Defects

- 1. Diacetyl
- 2. Metallic Tastes
- 3. High Air Beer
- 4. Light Struck Beer
- 5. Old, Oxidized Beer
- 6. Medicinal Odors
- 7. Grainy, Harsh, Astringent, Bitter
- 8. Flavor Depression



3. AMINO ACID

INTRODUCTION

MICROBIAL PRODUCTION OF AMINO ACIDS

- A. Production of Amino Acids by Wild Strains
- **B. Production of Amino Acids by Auxotrophic Mutants**
- **C. Production of Amino Acids by Regulatory Mutants**
- **D. Production of Amino Acids from Biosynthetic Precursors**



ENZYMATIC SYNTHESIS OF AMINO ACIDS

A. Hydrolytic Enzymes

- 1. L- a -Amino-e-caprolactam hydrolase
- 2. 2-Amino-D2-thiazoline-4-carboxylate hydrolase
- 3. Hydantoinase

B. Ammonia Lyases

- 1. Aspartase
- 2. Phenylalanine Ammonia Lyase

C. Arginine Deiminase

D. Pyridoxal 5'-Phosphate Enzymes

- 1. Asparate b-decarboxylase
- 2. b-Tyrosinase



- 3. Tryptophanase
- 4. Cysteine Desulfhydrase
- 5. Tryptophan Synthase
- 6. b-Chloro-D-alanine hydrogenchloride lyase
- 7. L-Methionine g-lyase
- 8. Serine Hydroxymethyltransferase
- 9. L-Threonine Aldolase

E. Other Enzymes

- 1. Amino Acid Dehydrogenases
- 2. Glutamine Synthetase
- Enzymatic Resolution of Racemic Amino Acids Introduction



B. ENZYMATIC METHODS

1. RESOLUTION BY ENZYMATIC ASYMMERTIC DERIVATIZATION

2. RESOLUTION BY ASYMMETRIC HYDROLYSIS

(a) Esterase Method(b) Amidase Method

(c) Aminoacylase Method

USE OF AMINO ACIDS

Use for Food

PRODUCTION FIGURES AND ECONOMIC ASPECTS



4. COFFEE PROCESSING INTRODUCTION

THE COFFEE PLANT PROCESSING AND FERMENTATION OF THE COFFEE FRUIT

MICROORGANISMS INVOLVED IN COFFEE FERMENTATION

A. LITERATURE DATA

B. ISOLATION AND CHARACTERIZATION OF MICROORGANISMS FROM ZAIRE COFFEE



THE SUBSTRATE FOR FERMENTATION: COFFEE MESOCARP MESOCARP DEGRADATION DURING FERMENTATION

A. General

B. Are Plant Enzymes Involved in Coffee Fermentation?

C. Are Microbial Enzymes Involved in Coffee Fermentation?

CONCLUSIONS

5. TEA PROCESSINGA. ORIGINS OF TEA B. TYPES OF TEA C. PHYSICAL AND CHEMICAL CHARACTERISTICS OF TEA LEAVES



BLACK TEA MANUFACTURE

- A. Harvest of Tea Shoot Tips
- B. Withering
- C. Tissue Maceration (Rolling)
- D. Fermentation
- E. Firing
- F. Grading and Storage

GREEN TEA MANUFACTURE

OOLONG AND POUCHONG TEA MANUFACTURE

FLAVORED TEAS







CONCLUSION

6. CABBAGE & CUCUMBER PROCESSING

GENERAL INTRODUCTION

CABBAGE A. INTRODUCTION

B. CABBAGE VARIETALS

- 1. Crop Distribution
- 2. New Hydbrids



C. MECHANICAL OPERATIONS

- 1. Mechanical Harvester
- 2. Grading
- 3. Core Removal
- 4. Trim
- 5. Shredding
- 6. Salting
- 7. Conveyance
- 8. Fermentation Tanks Tank Closure

D. FERMENTATION

E. PRODUCT DEFECTS

- 1. "Off" Flavor
- 2. Color Defects
- 3. Processing Defects





F. PROCESSING

- 1. Bulk Sauerkraut
- 2. "Hot Fill" Method
- 3. Chemical Preservatives

CUCUMBERS

A. PRODUCTION AND CONSUMPTION

B. VARIETALS AND HARVESTING

C. GRADING

D. FERMENTATION



1. SALT STOCK

(a) Development of Flora

(b) Defects

(c) Controlled Fermentation

2. Dill Pickles

3. Spoilage

4. Preservation

7. LACTIC ACID BIOSYNTHESIS



MICROORGANISMS

TECHNICAL PRODUCTION

- A. Fermentation
- B. Isolation
- C. Economic Aspects

SOME OTHER APPLICATIONS OF LACTIC ACID FERMENTATION

8. ACETIC ACID

INTRODUCTION



A. General

- **B. Bases of Acetic Acid Fermentation**
- **C. Raw Materials**
- **D. Water for Processing**
- **E. Nutrients**

MICROORGANISMS AND TAXONOMY

A. Summary and Basic Problems of Classification B. Industrially Used Strains

BIOCHEMISTRY A. Ethanol

B. Sugar



C. Acetate D. Carbon Dioxide E. Nitrogen F. Growth Factors

PHYSIOLOGY

A. Oxygen Demand and Total Concentration
B. Lack of Ethanol
C. Specific Growth Rate
D. Specific Product Formation
E. Changes in Concentration
F. Overoxidation



INDUSTRIAL PROCESSES

A. SUBMERGED VINEGAR FERMENTATION

The Frings Acetator

- 1. Other Processes
- 2. Abandoned processes

B. SURFACE AND TRICKLING PROCESSES

- 1. History and Surface Process
- 2. Older Trickling Processes
- 3. The Frings Generator

C. PRODUCTION OF CONCENTRATED ACETIC ACID



9. ORGANIC ACID OF MINOR IMPORTANCE

INTRODUCTION

Itaconic Acid

EPOXYSUCCINIC ACID

Malic Acid

OXOGLUCONIC ACIDS

A. 2-Oxogluconic AcidB. 5-Oxogluconic AcidC. 2,5-Dioxogluconic AcidD. 2-Oxogulonic Acid



PROPIONIC AND BUTYRIC ACIDS

TARTARIC ACID

2-OXOGLUTARIC ACID

FUMARIC ACID

FUTHER ORGANIC ACIDS

- A. Succinic Acid B. Pyruvic Acid
- C. 2-Oxogalactonic Acid
- D. Kojic Acid



10. D-GLUCONIC ACID

INTRODUCTION

BIOLOGICAL FUNDAMENTALS

FERMENTATION PROCESSES INVOLVING

Calcium Gluconate Fermentation Sodium Gluconate Fermentation

PRODUCT RECOVERY AND PROCESSING BACTERIAL GLUCONIC ACID FERMENTATIONS CONSUMPTION AND PRODUCTION FIGURES



11. CITRIC ACID

BIOLOGICAL FUNDAMENTALS

- A. Strains
- B. Fermentation Medium
- C. Other Factors
- D. Biochemistry and Enzyme Regulation

PRODUCTION PROCEDURES

- A. Production Strains
- B. Spore Propagation for Inoculation
- C. Raw Materials
- D. The Koji Process
- E. Surface Process
- F. Submerged Proces



PRODUCT RECOVERY

CITRIC ACID FROM OTHER SUBSTRATES AND ORGANISMS

COMPARISON OF PROCESS KINETICS

PROCESS ECOLOGY

UTILIZATION OF CITRIC ACID

PRODUCTION FIGURES





FORMATION OF BIOMASS FROM CARBOHYDRATES

A. IntroductionB. Reactions from Glucose to Cell MaterialSome Early Observations

EVALUATION OF THE REACTIONS FROM GLUCOSE TO CELL MATERIAL

Yeast Saccharides Yeast Protein Nucleic Acids Neutral Fat

npcs

Phospholipids Sterols Equation for Yeast Growth on Glucose Flux of the Substrate During Yeast Growth

BIOMASS FROM MOLASSES

A. COMPOSITION AND PROPERTIES MOLASSES

B. COMPRESSED YEAST FROM MOLASSES

- 1. The Evolution of Baker's Yeast Production
- 2. Aspects of the Biochemistry of Baker's Yeast
- 3. Requirements for Baker's Yeast Production
- 4. Outline of the Manufacturing Process
- 5. Analysis and Quality Control of Baker's Yeast



C. ACTIVE DRY YEAST

D. WINE YEAST CULTURED ON MOLASSES

E. FEED YEAST FROM MOLASSES

BIOMASS FROM SPENT SULFITE LIQUOR

A. SPENT SULFITE LIQUOR

B. BIOMASS FROM SPENT SULFITE LIQUOR

- 1. Candida Yeasts
- 2. Baker's Yeast from Spent Sulfite Liquor
- 3. Pekilo Process



BIOMASS FROM WHEY

BIOMASS FROM STARCH

13. PHOTOGRAPHS OF PLANT & MACHINERY WITH SUPPLIER'S CONTACT DETAILS



<u>Tags</u>

Starting Small and Medium Scale Industries in India, Small and Medium Scale Businesses, Project Opportunities, Small and Medium Scale Industry, Small and Medium Scale Enterprise (SMEs), Profitable Small and Medium Manufacturing Business Ideas, How to Start Small & Medium Scale Business in India, How to Start Your Small Business, Select and Start Profitable Small and Medium Scale Industry, Small Scale Industries, Small and Medium Enterprises, Small Scale Industry Projects, Ideas for Starting a Small Scale Business in India, Which Small Scale Industry is Best to Start in India? How to Start an Industry, Project Report for Small and Medium Scale Industry, Highly Profitable Business Ideas, How to Setup Industry in India, How to Start a Medium Scale Industry, Profitable Businesses You Can Start



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Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation



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