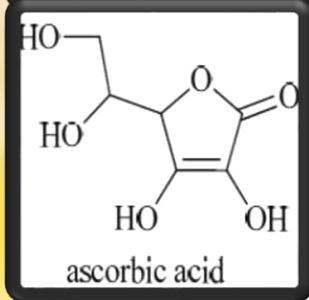
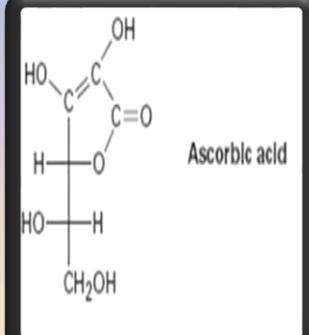
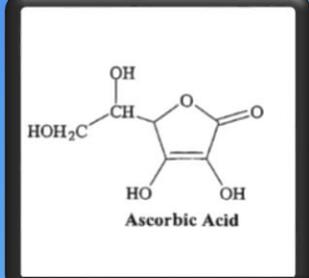


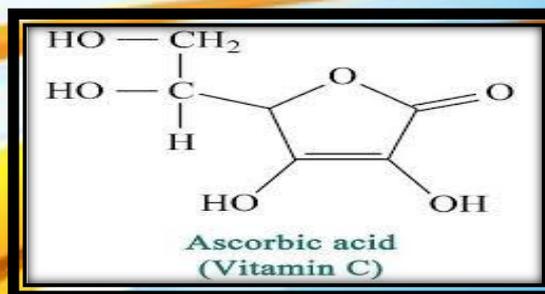
# Manufacturing of **L-ASCORBIC ACID (PLAIN).**

## Profit-Making Business for Entrepreneurs, Startups.



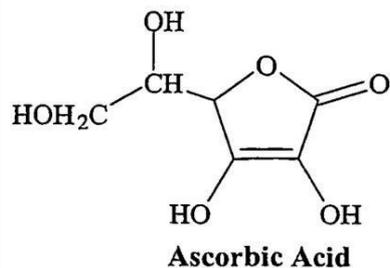
# Introduction

L-Ascorbic acid is an organic acid with antioxidant properties. Its appearance is white to light yellow crystals or powder. It's water-soluble. The L-enantiomer of ascorbic acid is usually referred to as vitamin C. The name is derived from the alpha privative a- (meaning no) and scorbutic United States (scurvy), the disease caused by a deficiency of vitamin c. In 1937 the Nobel Prize for chemistry was awarded to Walter Haworth for his add determining the structure of L-ascorbic acid (shared with Paul Karrer, who received his award for work on vitamins), and also the prize for Physiology or medicine that year went to albert Szent-Gyorgyi for his studies of the biological functions of L-ascorbic acid.

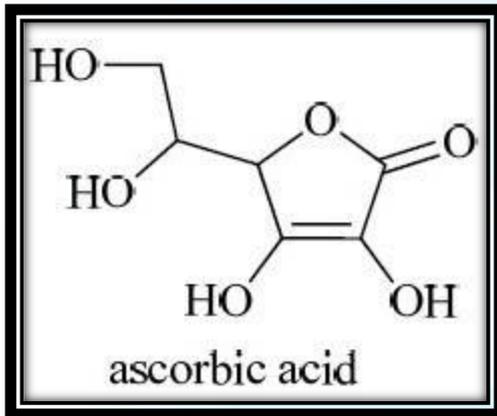


Vitamin C is a vital nutrient in human diets, and necessary to take care of connective tissue and bone. Ascorbic acid is well oxidized. L type ascorbic acid (Vitamin C) biologically functions as a reductant and a coenzyme in several metabolic pathways. L-Ascorbic acid and its sodium, potassium, and calcium salts, used as food preservative, are soluble. Ascorbate, fat-soluble esters of ascorbic acid, are used as food antioxidant. Ascorbic acid is simply destroyed under the exposure to oxygen, metals, light and heat.

**Related Projects:- Chemicals (Organic, Inorganic, Industrial) Projects**



Ascorbic acid (vitamin C) could be a water-soluble vitamin which may be found in several biological systems and foodstuffs (fresh vegetables and fruits, namely, citrus). Water-soluble vitamin plays a very important role in collagen biosynthesis, iron absorption, and immune response activation and is concerned in wound healing and ontogenesis. It also acts as a strong antioxidant that fights against free-radical induced diseases



## Benefits

L-ascorbic acid or L-ascorbate is a vital nutrient for many animals, including humans. It is an antioxidant which protects the body against oxidative stress. An antioxidant is a molecule that can inhibit the oxidation of other molecules. Oxidation reactions produce free radicals which can start chain reactions that damage cells. It is also a cofactor in 8 enzymatic reactions.

An organic compound - vitamin C is an organic compound, so are the other vitamins. This means it contains the elements carbon and oxygen and is a substance that exists in living things.

**Related Projects: - Chemicals, Biotechnology, Enzymes, Bio Fertilizer, Vermiculture, Vermicompost Chemical & Allied Industries and Alcohol Projects**

**Collagen** - vitamin C is involved in the production of collagen. Collagen is the main component of connective tissue and the most abundant protein in mammals. Experts say that 1% to 2% of muscle tissue is collagen. Collagen is a vital and abundant component of fibrous tissues, such as tendon, ligament, skin, cornea, cartilage, bone, the gut, and blood vessels.

**Healing** - [vitamin C](#) plays a significant role in the healing of wounds, cuts and grazes.

**Infections** - individuals with adequate levels of vitamin C are better able to fight off infections compared to people with vitamin C deficiency.

**Cancer protection** - vitamin C slows down the conversion of irritants into cancer-causing substances. Examples of irritants include tobacco smoke, smog, and some substances found in foods.

**Cardiovascular benefits** - experts believe vitamin C widens the blood vessels, protecting us from developing hypertension (high blood pressure) and heart disease.

Cholesterol - individuals with adequate levels of vitamin C have better cholesterol level control compared to others.

**Scurvy** - if you consume plenty of vitamin C you will not get scurvy, a disease that causes swollen joints, bleeding gums, loose teeth, anemia and tiredness. Scurvy used to be a problem among ship crews many years ago because of a lack of fruit and vegetable consumption. Today scurvy is uncommon.



**Eyes** - vitamin C lowers the risk of cataracts.

**Diabetes patients** - individuals with diabetes who eat plenty of vitamin C rich fruit and vegetables are less likely to experience deterioration of the kidneys, eyes and nerves.

Food Processing- Ascorbic acid (vitamin C) is used extensively in the food industry, not only for its nutritional value but for its many functional contributions to product quality. Acting as an antioxidant, ascorbic acid can improve the color and palatability of many kinds of food products.



# Market Outlook

The market has been witnessing AN unfair monopoly from China, because of the consolidation of the most production of vitamin c within the country. Nonetheless, the country holds high power in setting the worldwide costs of the ingredient that could be a major factor driving the market.

**Related Books:** - [Chemical Technology \(Organic, Inorganic, Industrial\), Fine Chemicals](#)

The paradigm shift from clean-label [food](#) and beverage products to dietary supplements has led to the emergence of the many manufacturers providing clean-labeled vitamin C supplements to customers seeking antioxidant support for immune health through supplements.

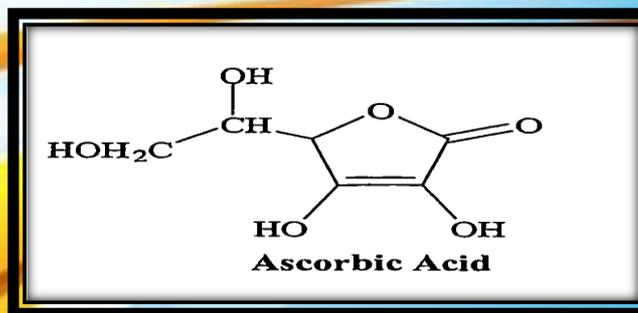
The demand for ascorbic acid has increased within the [pharmaceutical](#) and care business. The ascorbic acid market is segmental by application into food and drink, pharmaceuticals and health care, beauty and personal care, and animal feed.

Consumers primarily in countries, just like the United States, [India](#), China, and Germany, among others, are more and more reaching for dairy-based and different product containing useful ingredients to keep off illnesses or help with existing health problems. This, in turn, has made-up the method for manufacturers to penetrate the functional [food](#) and drink sector with innovative bioactive ingredients, as well as ascorbic acid. Also, varied government initiatives are being taken to increase the consumption of fortified [food](#) and beverages, especially in developing countries, like China and India.

As an example, the promotion of fortified foods by China's Ministry of Health, as well as growing health considerations related to age, myopia in adults, and different diseases, is expected to drive the market.

**Related Videos:- [Chemicals \(Organic, Inorganic, Industrial\)](#)**

Two grades of ascorbic acid are available in the market, viz. [food & pharmaceutical](#) and industrial. On the basis of application, the global ascorbic acid market has been segmented into six segments – food & beverage, pharmaceutical, [chemical](#), personal care, [agriculture](#) and others. The global ascorbic acid market is estimated to create an incremental \$ opportunity US\$ 667.6 MN during the forecast, registering a CAGR of 5.1% over 2018-2028.



## Superior Functional Attributes of Ascorbic Acid to Propel Market Growth

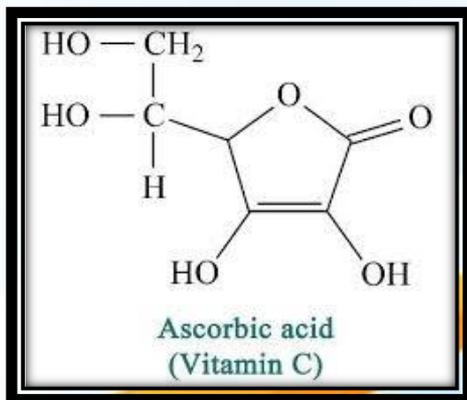
The global ascorbic acid market is anticipated to witness lucrative growth within the coming back years, because of the significant demand from numerous end-use industries similar to chemical, food & beverage, cosmetics, agriculture, pharmaceutical, and others. Shifting preferences towards healthy foods, as well as nutrition supplements, are contributing to the growing prominence of vitamin C/ascorbic acid in various applications, corresponding to in skin product, healing injuries and prevention of infections and to boost the absorption of iron from food, scale back the risk of chronic diseases, enhance immune health, and management blood pressure.

**Related Videos:** - [Production of Vitamin C \(Ascorbic Acid\). L-Ascorbic Acid Manufacturing Business](#)

Additionally, ascorbic acid is required for the growth, development, and repair of all body tissues and to hold out body functions similar to the creation of scleroprotein and maintenance of cartilages, bones and teeth. As per health expert recommendations, ascorbic acid is considered together of the safest and most beneficial nutrients that successively is expected to drive the worldwide ascorbic acid market with a healthy growth rate throughout the forecast amount. As an example, according to the American Journal of Clinical Nutrition, those with the very best concentration of [ascorbic](#) acid in their blood were associated with a 42% lower stroke risk as compared to those with rock bottom concentration. Market participants are accentuation on strategies, such as mergers, expansion, acquisitions, and therefore the introduction of innovative products, to fulfil the high demand from end-use markets. Such strategies across the competitive landscape form a notable trend within the world [ascorbic](#) acid market.

## Global Ascorbic Acid Market Segmentation

The global ascorbic acid market may be segmented on the idea of grade, application, and region. On the basis of product grade, the worldwide ascorbic acid market may be segmented into two segments – industrial and food & [pharmaceutical](#). On the idea of application, the worldwide ascorbic acid market may be segmented into six segments – food & liquid, pharmaceutical, chemical, aid, agriculture, and others. The [food](#) & liquid phase is predicted to grow with a CAGR of 4.9% throughout the forecast period (2018–2028).



The global ascorbic acid market is calculable to register a significant rate in the near future. South Asia is estimated to be a prominent region in terms of both volume and value share within the global [ascorbic](#) acid market. China and India are major consumers within the ascorbic acid market because of the presence of variety of small-sized manufacturing players, especially, chemical, pharmaceutical, and food industries. Developed markets, as well as Europe and [North America](#), are anticipated to hold a collective revenue share of around a fourth of the value within the global ascorbic acid landscape through 2028.



## Key Players:-

- Ambalal Sarabhai Enterprises Ltd.
- Jayant Vitamins Ltd.
- Romeda Chemicals Ltd.
- Synbiotics Ltd.
- Koninklijke DSM N.V.
- Northeast Pharmaceutical Group Co., Ltd.
- Bactolac Pharmaceutical Inc
- Merck KGaA
- Koninklijke DSM N.V.
- Northeast Pharmaceutical Group
- Shandong Luwei Pharmaceutical
- Foodchem International Corporation

# Major Queries/Questions Answered in the Report?

- 1. What is L-ASCORBIC ACID (PLAIN) Manufacturing industry ?**
- 2. How has the L-ASCORBIC ACID (PLAIN) Manufacturing industry performed so far and how will it perform in the coming years ?**
- 3. What is the Project Feasibility of L-ASCORBIC ACID (PLAIN) Manufacturing Plant ?**
- 4. What are the requirements of Working Capital for setting up L-ASCORBIC ACID (PLAIN) Manufacturing plant ?**

**5. What is the structure of the L-ASCORBIC ACID (PLAIN) Manufacturing Business and who are the key/major players ?**

**6. What is the total project cost for setting up L-ASCORBIC ACID (PLAIN) Manufacturing Business?**

**7. What are the operating costs for setting up L-ASCORBIC ACID (PLAIN) Manufacturing plant ?**

**8. What are the machinery and equipment requirements for setting up L-ASCORBIC ACID (PLAIN) Manufacturing plant ?**

**9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up L-ASCORBIC ACID (PLAIN) Manufacturing plant ?**

**10. What are the requirements of raw material for setting up L-ASCORBIC ACID (PLAIN) Manufacturing plant ?**

**11. Who are the Suppliers and Manufacturers of Raw materials for setting up L-ASCORBIC ACID (PLAIN) Manufacturing Business?**

**12. What is the Manufacturing Process of L-ASCORBIC ACID (PLAIN)?**

**13. What is the total size of land required for setting up L-ASCORBIC ACID (PLAIN) Manufacturing plant ?**

**14. What will be the income and expenditures for L-ASCORBIC ACID (PLAIN) Manufacturing Business?**

**15. What are the Projected Balance Sheets of L-ASCORBIC ACID (PLAIN) Manufacturing plant ?**

**16. What are the requirement of utilities and overheads for setting up L-ASCORBIC ACID (PLAIN) Manufacturing plant?**

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**21. What is the Break-Even Analysis of L-ASCORBIC ACID (PLAIN) Manufacturing plant?**

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- 23. What are the Profitability Ratios of L-ASCORBIC ACID (PLAIN) Manufacturing Project?**
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- 25. What are the Projected Pay-Back Period and IRR of L-ASCORBIC ACID (PLAIN) Manufacturing plant?**
- 26. What is the Process Flow Sheet Diagram of L-ASCORBIC ACID (PLAIN) Manufacturing project?**

**27. What are the Market Opportunities for setting up L-ASCORBIC ACID (PLAIN) Manufacturing plant?**

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- Flow Sheet Diagram
- List of Raw Materials
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- Built up Area
- Plant Layout.

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➤ **Assumptions for Profitability workings**

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- Land & Building
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# Reasons for Buying our Report:

- **This report helps you to identify a profitable project for investing or diversifying into by throwing light to crucial areas like industry size, market potential of the product and reasons for investing in the product**
- **This report provides vital information on the product like it's characteristics and segmentation**
- **This report helps you market and place the product correctly by identifying the target customer group of the product**

- **This report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials**
- **The report provides a glimpse of government regulations applicable on the industry**
- **The report provides forecasts of key parameters which helps to anticipate the industry performance and make sound business decisions**

# Our Approach:

- **Our research reports broadly cover Indian markets, present analysis, outlook and forecast for a period of five years.**
- **The market forecasts are developed on the basis of secondary research and are cross-validated through interactions with the industry players**
- **We use reliable sources of information and databases. And information from such sources is processed by us and included in the report**

# **Scope of the Report**

**The report titled “Market Survey cum Detailed Techno Economic Feasibility Report on L-ASCORBIC ACID (PLAIN).” provides an insight into L-ASCORBIC ACID (PLAIN) market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of L-ASCORBIC ACID (PLAIN) project. The report assesses the market sizing and growth of the Indian L-ASCORBIC ACID (PLAIN) Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line. And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:**

- **Good Present/Future Demand**
- **Export-Import Market Potential**
- **Raw Material & Manpower Availability**
- **Project Costs and Payback Period**

**We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in the L-ASCORBIC ACID (PLAIN) sector in India along with its business prospects. Through this report we have identified L-ASCORBIC ACID (PLAIN) project as a lucrative investment avenue.**

# Tags

#vitaminc      #ascorbicacid      #SodiumAscorbate      #chemicalindustry  
#DetailedProjectReport      #businessconsultant      #BusinessPlan  
#feasibilityReport      #NPCS      #industrialproject      #entrepreneurindia  
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**NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.**

**Our Market Survey cum Detailed Techno Economic Feasibility Report provides an insight of market in India. The report assesses the market sizing and growth of the Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line.**



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**The detailed project report covers all aspect of business, from analyzing the market, confirming availability of various necessities such as Manufacturing Plant, Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Manufacturing Process, Machinery, Raw Materials, Feasibility Study, Investment Opportunities, Cost and Revenue, Plant Economics, Production Schedule,**

**Working Capital Requirement, uses and applications, Plant Layout, Project Financials, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis. The DPR (Detailed Project Report) is formulated by highly accomplished and experienced consultants and the market research and analysis are supported by a panel of experts and digitalized data bank.**

**We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in India along with its business prospects.....[Read more](#)**



# Contact us

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# **Niir PROJECT CONSULTANCY SERVICES**

**An ISO 9001:2015 Company**



[www.entrepreneurindia.co](http://www.entrepreneurindia.co)

# 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*
- *Market Research Reports*
- *Business Plan*
- *Technology Books and Directory*
- *Industry Trend*
- *Databases on CD-ROM*
- *Laboratory Testing Services*
- *Turnkey Project Consultancy/Solutions*
- *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

Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation

## Who do we Serve?

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

## Sectors We Cover

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

## **Sectors We Cover** *Cont...*

- 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

## Sectors We Cover *Cont...*

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

## Sectors We Cover *Cont...*

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

## Sectors We Cover

*Cont...*

- 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
- Organic Farming, Neem Products Etc.

## Sectors We Cover *Cont...*

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

## Sectors We Cover *Cont...*

- Potato And Potato Based Projects
- Printing And Packaging
- 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

## Sectors We Cover *Cont...*

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

# MARKET RESEARCH REPORTS

## Objective

- ∞ To get a detailed scenario of the industry along with its structure and classification
- ∞ To provide a comprehensive analysis of the industry by covering aspects like:
  - ∞ Growth drivers of the industry
  - ∞ Latest market trends
  - ∞ Insights on regulatory framework
  - ∞ SWOT Analysis
  - ∞ Demand-Supply Situation
  - ∞ Foreign Trade
  - ∞ Porters 5 Forces Analysis

## Objective

- ∞ To provide forecasts of key parameters which helps to anticipate the industry performance
- ∞ To help chart growth trajectory of a business by detailing the factors that affect the industry growth
- ∞ To help an entrepreneur/manager in keeping abreast with the changes in the industry
- ∞ To evaluate the competitive landscape of the industry by detailing:
  - ∞ Key players with their market shares
  - ∞ Financial comparison of present players

## **Clientele**

- ∞Venturist/Capitalists
- ∞Entrepreneur/Companies
- ∞Industry Researchers
- ∞Investment Funds
- ∞Foreign Investors, NRI's
- ∞Project Consultants/Chartered Accountants
- ∞Banks
- ∞Corporates

**[Click here for list](#)**

# Data Sources



# Scope & Coverage



## **Our Team**

- ⌘ Our research team comprises of experts from various financial fields:
- ⌘ MBA's
- ⌘ Industry Researchers
- ⌘ Financial Planners
- ⌘ Research veterans with decades of experience

## Structure of the Report

- 1. Overview
- 2. Market Analysis
  - 2.1 Growth Drivers
  - 2.2 Emerging Trends in the Industry
  - 2.3 Regulatory Framework
  - 2.4 SWOT Analysis
  - 2.5 Herfindahl–Hirschman Index (HHI)
- 3. Market Forecasts
- 4. Key Players

# Structure of the Report *Cont*

- ⌘5. Key Financials and Analysis
  - ⌘5.1 Contact Information
  - ⌘5.2 Key Financials
  - ⌘5.3 Financial comparison
- ⌘6. Industry Size & Outlook

**Take a look at NIIR PROJECT CONSULTANCY  
SERVICES on #Street View**

<https://goo.gl/VstWkd>

# Contact us

## NIIR PROJECT CONSULTANCY SERVICES

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Take a look at NIIR PROJECT CONSULTANCY SERVICES on #StreetView

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# THANK YOU

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