

# Production of Vitamin



## (Ascorbic Acid).

## L-Ascorbic Acid

## Manufacturing Business.

# Introduction

**Vitamin C (also known as ascorbic acid) is abundant in vegetables and fruits. A water-soluble vitamin and powerful antioxidant, it helps the body form and maintain connective tissue, including bones, blood vessels, and skin.**

**Vitamin C is one of the safest and most effective nutrients. It may not be the cure for the common cold (though it's thought to help prevent more serious complications). But the benefits of vitamin C may include protection against immune system deficiencies, cardiovascular disease, prenatal health problems, eye disease, and even skin wrinkling.**

## These include:

- **Helping to protect cells and keeps them healthy**
- **Maintaining healthy skin, blood vessels, bones and cartilage**
- **Helping with wound healing**
- **Lack of vitamin C can lead to scurvy. Mild deficiencies may occur in infants given unsupplemented cows' milk and in people with poor or very restricted diets.**

**v i t a m i n e**

**Vitamin c is chemically the simplest of the vitamins and for this reason was among the first to be isolated, characterized, and purified and to have its structure determined. More vitamin C is produced industrially than any other vitamin, or indeed all the other vitamins put together.**

**It is one of the few pure chemical compounds which is taken routinely by human beings in gram quantities (a possible challenger is sugar). It appears to have no harmful effects even in these large amounts and it is a medicine which it is a pleasure to take, especially in the form of fruit or vegetables.**

# **Market Outlook**

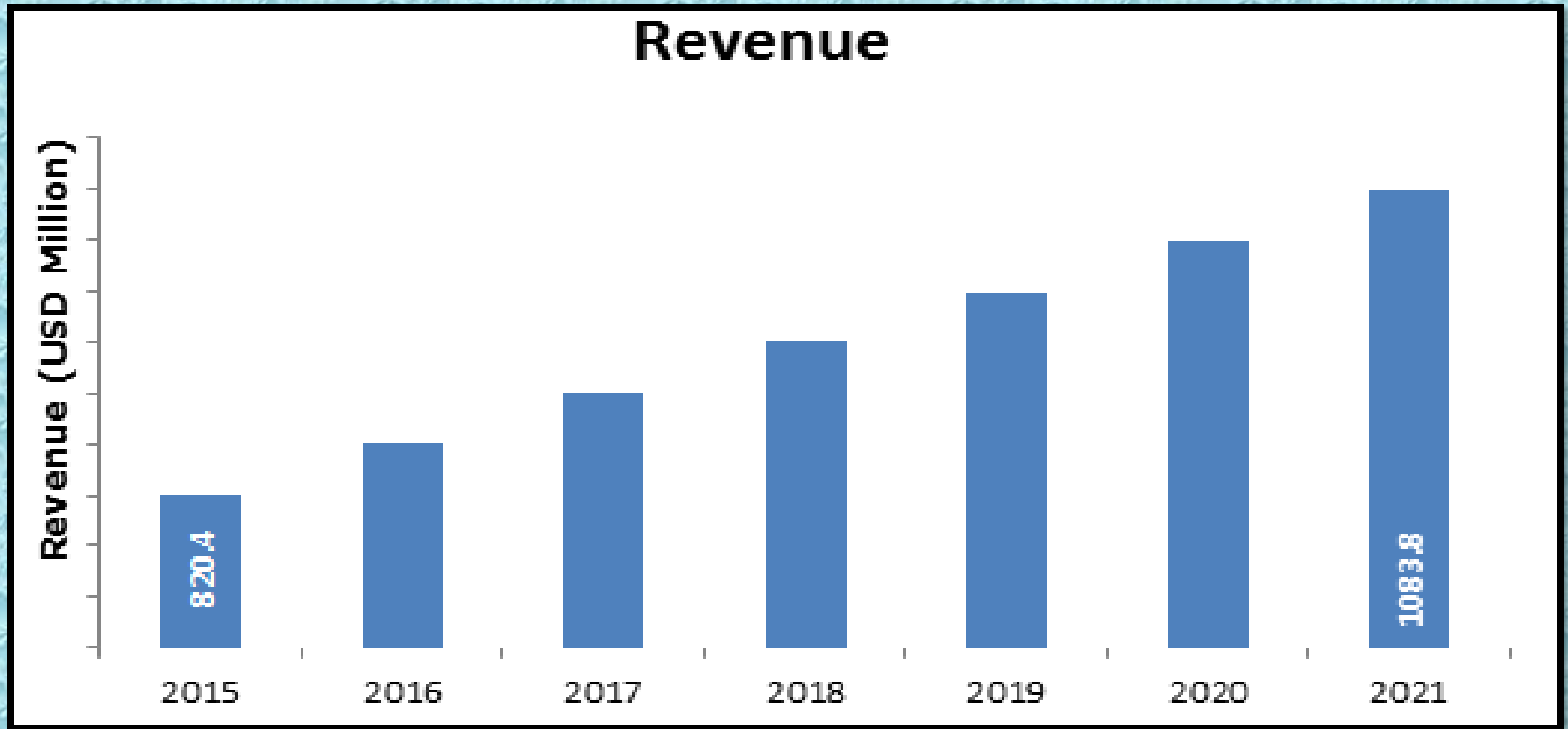
**Vitamin C Market size is mainly driven by strong application scope in cosmetics, pharmaceutical, animal feed, and processed food industries. It is mainly found in fruits, vegetables and used as a dietary supplement. It is used to protect against cardiovascular disease, eye problems, immune system deficiencies, skin wrinkling, and prenatal health issues.**

**Ascorbic acid is water soluble in nature and cannot be stored in body. It is available in tonic, tablet and injection form. It repairs and maintain bones, teeth and form scar tissues, therefore making it an essential dietary supplement.**

**Vitamin C Market is driven due to rising health awareness and need for healthy lifestyle. Increase in health awareness among consumers through social networking websites and campaigns has resulted in higher demand for vitamin supplements including Vitamin C.**

**Ascorbic acid production is hugely dependent on the availability of raw material.**

# Global Ascorbic Acid Market, 2015-2021 (USD Million)



**The global Ascorbic Acid market is expected to witness moderate growth over the forecast period on account of increasing demand from pharmaceutical industry. The majority of ascorbic acid manufactured is used as an antioxidant. The major end-user industries of ascorbic acid are pharmaceuticals, food & beverages, personal care, and others. The pharmaceutical industry is the largest consumer of ascorbic acid. Vitamin C helps to recycle vitamin E.**



**About one-third of a total production of ascorbic acid is used for vitamin preparations in the pharmaceutical industry. The rest is mainly applied as an additive to food and feed to enhance product quality and stability. Ascorbic acid added to foodstuffs during processing or before packing protects color, aroma, and nutrient content. The usage of ascorbic acid in food & beverages industry is expected to grow at a healthy CAGR during the forecast period.**

# Machinery Photographs

## Reactor



## Distillation Unit



## Evaporator



## Ultra Filter



## Boiler



## Few Indian Major Players are as under

- **Manav Drugs**
- **Triveni Interchem Pvt. Ltd.**
- **Estrellas Life Sciences Pvt. Ltd.**
- **Akhil Healthcare Private Limited**

# Project at a Glance

| Particulars                     | Existing    | Proposed      | Total         | Particulars                  | Existing    | Proposed      | Total         |
|---------------------------------|-------------|---------------|---------------|------------------------------|-------------|---------------|---------------|
| Land & Site Development Exp.    | 0.00        | 127.60        | 127.60        | Capital                      | 0.00        | 140.76        | 140.76        |
| Buildings                       | 0.00        | 144.05        | 144.05        | Share Premium                | 0.00        | 0.00          | 0.00          |
| Plant & Machineries             | 0.00        | 122.50        | 122.50        | Other Type Share Capital     | 0.00        | 0.00          | 0.00          |
| Motor Vehicles                  | 0.00        | 10.00         | 10.00         | Reserves & Surplus           | 0.00        | 0.00          | 0.00          |
| Office Automation Equipments    | 0.00        | 36.50         | 36.50         | Cash Subsidy                 | 0.00        | 0.00          | 0.00          |
| Technical Knowhow Fees & Exp.   | 0.00        | 20.00         | 20.00         | Internal Cash                | 0.00        | 0.00          | 0.00          |
| Franchise & Other Deposits      | 0.00        | 0.00          | 0.00          | Accruals                     | 0.00        | 0.00          | 0.00          |
| Preliminary & Pre-operative Exp | 0.00        | 2.00          | 2.00          | Long/Medium Term Borrowings  | 0.00        | 422.28        | 422.28        |
| Provision for Contingencies     | 0.00        | 10.00         | 10.00         | Debentures / Bonds Unsecured | 0.00        | 0.00          | 0.00          |
| Margin Money - Working Capital  | 0.00        | 90.40         | 90.40         | Loans/Deposits               | 0.00        | 0.00          | 0.00          |
| <b>TOTAL</b>                    | <b>0.00</b> | <b>563.05</b> | <b>563.05</b> | <b>TOTAL</b>                 | <b>0.00</b> | <b>563.05</b> | <b>563.05</b> |



# Project at a Glance

| Year | Annualised |       | Book Value | Debt  | Dividend  | Retained Earnings |       | Payout | Probable Market Price | P/E Ratio   | Yield Price/Book Value |
|------|------------|-------|------------|-------|-----------|-------------------|-------|--------|-----------------------|-------------|------------------------|
|      | EPS        | CEPS  | Per Share  |       | Per Share | Per Share         |       | %      |                       | No.of Times | %                      |
|      |            |       |            |       |           | %                 |       | %      |                       |             |                        |
| 1-2  | 6.66       | 9.59  | 16.66      | 24.00 | 0.00      | 100.00            | 6.66  | 0.00   | 6.66                  | 1.00        | 0.00                   |
| 2-3  | 9.33       | 11.90 | 25.99      | 18.00 | 0.00      | 100.00            | 9.33  | 0.00   | 9.33                  | 1.00        | 0.00                   |
| 3-4  | 12.06      | 14.32 | 38.04      | 12.00 | 0.00      | 100.00            | 12.06 | 0.00   | 12.06                 | 1.00        | 0.00                   |
| 4-5  | 14.74      | 16.73 | 52.79      | 6.00  | 0.00      | 100.00            | 14.74 | 0.00   | 14.74                 | 1.00        | 0.00                   |
| 5-6  | 17.35      | 19.11 | 70.13      | 0.00  | 0.00      | 100.00            | 17.35 | 0.00   | 17.35                 | 1.00        | 0.00                   |



# Project at a Glance

| Year    | D. S. C. R.       |                |             | Debt /<br>-<br>Deposits<br>Debt | Equity<br>as-<br>Equity | Total<br>Net<br>Worth | Retur<br>n on<br>Net<br>Worth | Profitability Ratio |       |        |                         |              | Assets<br>Turnov<br>er<br>Ratio | Curre<br>nt<br>Ratio |
|---------|-------------------|----------------|-------------|---------------------------------|-------------------------|-----------------------|-------------------------------|---------------------|-------|--------|-------------------------|--------------|---------------------------------|----------------------|
|         | Individ<br>ual    | Cumulat<br>ive | Overa<br>ll |                                 |                         |                       |                               | GPM                 | PBT   | PAT    | Net<br>Contri<br>bution | P/V<br>Ratio |                                 |                      |
|         | (Number of times) |                |             | (Number of<br>times)            |                         | %                     | %                             | %                   | %     | %      | %                       |              |                                 |                      |
| Initial |                   |                |             | 3.00                            | 3.00                    |                       |                               |                     |       |        |                         |              |                                 |                      |
| 1-2     | 1.38              | 1.38           |             | 1.44                            | 1.44                    | 4.48                  | 5.29%                         | 2.79%               | 1.86% | 473.89 | 9.40%                   | 3.98         | 1.07                            |                      |
| 2-3     | 1.68              | 1.53           |             | 0.69                            | 0.69                    | 2.94                  | 5.66%                         | 3.45%               | 2.23% | 541.94 | 9.22%                   | 4.13         | 1.15                            |                      |
| 3-4     | 2.05              | 1.69           | 2.06        | 0.32                            | 0.32                    | 2.07                  | 5.91%                         | 3.96%               | 2.53% | 619.10 | 9.21%                   | 4.13         | 1.25                            |                      |
| 4-5     | 2.50              | 1.86           |             | 0.11                            | 0.11                    | 1.53                  | 6.09%                         | 4.33%               | 2.74% | 696.26 | 9.21%                   | 4.04         | 1.36                            |                      |
| 5-6     | 3.03              | 2.06           |             | 0.00                            | 0.00                    | 1.19                  | 6.21%                         | 4.60%               | 2.91% | 773.42 | 9.21%                   | 3.91         | 1.58                            |                      |



# Project at a Glance

## BEP

|   |                  |
|---|------------------|
| BEP - Maximum Utilisation Year                | 5                |
| Cash BEP (% of Installed Capacity)            | 46.65%           |
| Total BEP (% of Installed Capacity)           | 49.85%           |
| IRR, PAYBACK and FACR                         |                  |
| Internal Rate of Return .. ( In %age )        | 29.02%           |
| Payback Period of the Project is ( In Years ) | 2 Years 3 Months |
| Fixed Assets Coverage Ratio ( No. of times )  | 26.923           |





# Major Queries/Questions Answered in the Report?

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

- 5. What is the structure of the Vitamin C (Ascorbic Acid) Manufacturing Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Vitamin C (Ascorbic Acid) Manufacturing Business ?**
- 7. What are the operating costs for setting up Vitamin C (Ascorbic Acid) Manufacturing Project?**
- 8. What are the machinery and equipment requirements for setting up Vitamin C (Ascorbic Acid) Manufacturing plant ?**

**9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Vitamin C (Ascorbic Acid) Manufacturing plant ?**

**10. What are the requirements of raw material for setting up Vitamin C (Ascorbic Acid) Manufacturing Business?**

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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 Vitamin ‘C’ ” provides an insight into the Vitamin ‘C’ market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Vitamin ‘C’ project. The report assesses the market sizing and growth of the Indian Vitamin ‘C’ 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 Vitamin 'C' sector in India along with its business prospects. Through this report we have identified Vitamin 'C' project as a lucrative investment avenue.**

## Tags

Industrial Production of L-Ascorbic Acid (Vitamin C), Process for Preparation of Vitamin-C, Production of Vitamin C (Ascorbic Acid), Production of Ascorbic Acid, Production of Vitamin C, Commercial Production Of Vitamin C, L-Ascorbic Acid Production, Manufacturing Process of Vitamin C, How Vitamin is Made?, Vitamin Manufacturing Process, Manufacturing Formula for Vitamin C, Vitamin C Manufacturing Plant, Vitamin Manufacturing Plant, Processing on Vitamin C, Pharmaceutical Manufacturing, Vitamin C Dietary Supplement Tablet Production, Pharmaceutical Industry, What is the Manufacturing Process of Vitamin C, How to Make Vitamin C, Vitamin Production Process, Process for Production of Vitamin C, Process for Producing Vitamin C, Vitamin C Production, Industrial Production of Ascorbic Acid, Vitamin C Manufacturing Business for Beginners, Vitamin C Manufacturing Business, Vitamin Production Plant, Production of Ascorbic Acid Industrially, Ascorbic Acid Manufacture in India, Ascorbic Acid manufacture, How to Start Vitamin C Manufacturing Company, What are the benefits of vitamin C?, Vitamin C Manufacturing project ideas, Projects on Small Scale Industries, Small scale industries projects ideas, Ascorbic Acid Manufacturing Based Small Scale Industries Projects, Dietary antioxidants,

Food antioxidants, Orthomolecular medicine, Organic acids, Furanones, Dihydrofurans, Project profile on small scale industries, How to Start Vitamin C Manufacturing Industry in India, Vitamin C Manufacturing Projects, New project profile on Ascorbic Acid Manufacturing industries, Project Report on Ascorbic Acid Manufacturing Industry, Detailed Project Report on Vitamin C Manufacturing, Project Report on Ascorbic Acid Manufacturing, Pre-Investment Feasibility Study on Ascorbic Acid Manufacturing, Techno-Economic feasibility study on Ascorbic Acid Manufacturing, Feasibility report on Ascorbic Acid Manufacturing, Free Project Profile on Vitamin C Manufacturing, Project profile on Vitamin C Manufacturing, Download free project profile on Vitamin C Manufacturing, Industrial Project Report on Vitamin C Manufacturing, Ascorbic Acid Manufacturing Project

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### ▪ Detailed Project Reports

**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.**



**And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:**

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- **Project Costs and Payback Period**

**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

## **NIIR PROJECT CONSULTANCY SERVICES**

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

New Delhi-110007, India.

Email: [npcs.ei@gmail.com](mailto:npcs.ei@gmail.com) , [info@entrepreneurindia.co](mailto:info@entrepreneurindia.co)

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

Mobile: +91-9811043595

Fax: +91-11-23845886

Website : [www.entrepreneurindia.co](http://www.entrepreneurindia.co) , [www.niir.org](http://www.niir.org)

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# 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.*



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- *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**

# Contact us

## NIIR PROJECT CONSULTANCY SERVICES

106-E, Kamla Nagar, Opp. Spark Mall,  
New Delhi-110007, India.

Email: [npcs.ei@gmail.com](mailto:npcs.ei@gmail.com) , [info@entrepreneurindia.co](mailto:info@entrepreneurindia.co)

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

Mobile: +91-9811043595

Fax: +91-11-23845886

Website : [www.entrepreneurindia.co](http://www.entrepreneurindia.co) , [www.niir.org](http://www.niir.org)

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