

**Most Profitable
Manufacturing Business of**

Vitamin C

**from Sorbitol
“Opportunities in Pharmaceutical Sector”**

Vitamin C (also known as ascorbic acid or ascorbate) is a water-soluble vitamin that can be found in a number of foods and is also used as a dietary supplement. Scurvy is a disease that can be prevented and treated with this supplement. Vitamin C is a necessary nutrient for tissue repair and the enzymatic synthesis of certain neurotransmitters.



It also has anti-oxidant properties. Vitamin C is well tolerated by the majority of people. Large doses can cause gastrointestinal distress, headaches, difficulty sleeping, and skin flushing. Normal doses are safe to take when pregnant. The Institute of Medicine of the United States of America advises against taking massive doses. Vitamin C is an essential nutrient for humans and other species.



Vitamin C refers to a category of vitamins that have vitamin C production in animals. Some dietary supplements contain ascorbate salts including sodium ascorbate and calcium ascorbate. When these are digested, they produce ascorbate. Since the forms interconvert according to ph, both ascorbate and ascorbic acid are naturally found in the body. Reducing agents convert oxidized forms of the molecule, such as dehydroascorbic acid, back to ascorbic acid.

Ascorbic acid is used to avoid or treat vitamin C deficiency in people who do not consume enough of the vitamin through their diet. The majority of people who eat a balanced diet do not need additional ascorbic acid. Scurvy is a disease caused by a deficiency of vitamin C. Scurvy can cause a rash, muscle weakness, joint pain, fatigue, and tooth loss. It is now commonly promoted as a natural antidote to the common cold. Despite its reputation as an "immune booster," there is no evidence that taking vitamin C will actually prevent or treat infection.





Health Advantages

Vitamin C deficiency is the only disease that vitamin C can help with. According to the Centers for Disease Control and Prevention (CDC), vitamin C deficiency affects about 7.1 percent of the population in the United States. Scurvy is marked by bruising, bleeding gums, weakness, fatigue, and rashes in people who have a serious vitamin C deficiency. Vitamin C is thought by some to help with the treatment

or prevention of a variety of diseases, including colds, asthma, bronchitis, cancer, chronic pain, cataracts, gastritis, glaucoma, heart disease, high blood pressure, osteoarthritis, and Parkinson's disease, even though there is no proven deficiency.

Vision Loss

Vitamin C supplements have been shown to delay the progression of macular degeneration, an aging-related eye disease that causes vision loss.

Manufacturing Process of Ascorbic Acid (Vitamin C)

In 1933, the Reichstein–Grüssner method was developed for industrial-scale vitamin C processing. A fermentation stage (Bioconversion of D-sorbitol to L-sorbose by Gluconobacter oxidants) and several chemical steps (from L-sorbose to L-ascorbic acid) are used to convert D-sorbitol to L-ascorbic acid.



Due to its low cost and good product quality, a two-step fermentation process is now commonly used by Chinese manufacturers for vitamin C processing. In the two-step fermentation process, a mixed fermentation with *Ketogulonicigenium vulgare* and *Bacillus* spp. is used to transform L-sorbose to the intermediate 2-keto-L-gulonic acid (2KLG), as opposed to the classical process.



Many efforts have been made to improve the fermentation efficiency for 2KLG processing, including strain changes, metabolic control, and fermentation process optimization. Finally, perspectives on improving the efficiency of fermentation for industrial vitamin C production are addressed.



The strong application spectrum in the cosmetics, pharmaceutical, animal feed, and processed food industries is driving the market size of vitamin C. It's primarily found in fruits and vegetables, and it's also taken as a dietary supplement. It's used to avoid heart failure, vision disorders, immune system defects, skin wrinkling, and prenatal health problems.



By 2024, the global vitamin market could be worth more than USD 10 billion. Vitamin C is a natural antioxidant that protects cells from free radical damage when they are exposed to radiation or UV rays. It is involved in protein metabolism and is needed for collagen biosynthesis. During the period 2020-2025, the ascorbic acid market is expected to develop at a CAGR of 5.1 percent.

Indian Govt Initiative for Vitamin C Production

In the wake of domestic producers arguing for the implementation of a levy, India has launched an anti-dumping inquiry into vitamin C imports from China. The move comes days after the Directorate General of Trade Remedies (DGTR) of the Commerce Ministry placed a six-month provisional anti-dumping duty on anti-bacterial medication Ciprofloxacin Hydrochloride imports from China. The investigation has been launched after Bajaj Healthcare said that 'dumped imports' of vitamin C from China are...

harming the domestic industry. “In terms of important product characteristics such as physical and chemical characteristics, manufacturing process and technology, functions and uses, product requirements, pricing, and distribution, subject products manufactured by domestic industry and PUC (product under consideration) imported from subject country (China) are comparable. The products' marketing and tariff classification,” the company had said.

- **Dishman Pharmaceuticals & Chemicals Ltd.**
- **Glaxosmithkline Pharmaceuticals Ltd.**
- **Gulshan Polyols Ltd.**
- **Kasyap Sweetners Ltd.**
- **M S Healthcare Pvt. Ltd.**
- **Pfizer Healthcare India Pvt. Ltd.**
- **Pfizer Ltd.**



FERMENTATION TANK



VACCUM EVAPORATOR



CONDENSER



REACTOR



Project at a Glance

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	68.00	68.00	Capital	0.00	179.16	179.16
Buildings	0.00	138.00	138.00	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	371.45	371.45	Other Type Share Capital	0.00	0.00	0.00
Motor Vehicles	0.00	12.00	12.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	51.50	51.50	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	25.00	25.00	Internal Cash			
Franchise & Other Deposits	0.00	0.00	0.00	Accruals	0.00	0.00	0.00
Preliminary & Pre-operative Exp	0.00	5.00	5.00	Long/Medium Term Borrowings	0.00	537.48	537.48
Provision for Contingencies	0.00	35.65	35.65	Debentures / Bonds	0.00	0.00	0.00
Margin Money - Working Capital	0.00	10.05	10.05	Unsecured Loans/Deposits	0.00	0.00	0.00
TOTAL	0.00	716.65	716.65	TOTAL	0.00	716.65	716.65

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				
						%		%		No.of Times	%
1-2	4.86	9.56	14.86	24.00	0.00	100.00	4.86	0.00	4.86	1.00	0.00
2-3	7.33	11.39	22.19	18.00	0.00	100.00	7.33	0.00	7.33	1.00	0.00
3-4	9.78	13.30	31.97	12.00	0.00	100.00	9.78	0.00	9.78	1.00	0.00
4-5	12.18	15.24	44.15	6.00	0.00	100.00	12.18	0.00	12.18	1.00	0.00
5-6	14.50	17.16	58.65	0.00	0.00	100.00	14.50	0.00	14.50	1.00	0.00

Project at a Glance

Year	D. S. C. R.			Debt/ - Deposits Debt	Equity as- Equity	Total Net Worth	Return on Net Worth	Profitability Ratio					Assets Turnover Ratio	Current Ratio
	Individual	Cumulative	Overall					GPM	PBT	PAT	Net Contribution	P/V Ratio		
	(Number of times)			(Number of times)		%	%	%	%	%	%			
Initial				3.00	3.00									
1-2	1.41	1.41		1.61	1.61	1.87		28.39%	15.65%	11.95%	499.41	68.51%	0.98	0.81
2-3	1.66	1.53		0.81	0.81	1.01		32.93%	22.74%	15.44%	580.80	68.29%	1.09	1.34
3-4	1.96	1.66	1.97	0.38	0.38	0.53		36.01%	27.72%	18.03%	663.73	68.29%	1.13	1.99
4-5	2.32	1.81		0.14	0.14	0.26		38.11%	31.26%	19.95%	746.66	68.28%	1.11	2.75
5-6	2.75	1.97		0.00	0.00	0.10		39.53%	33.80%	21.39%	829.59	68.28%	1.06	7.19



BEP

BEP - Maximum Utilisation Year

5

Cash BEP (% of Installed Capacity)

44.72%

Total BEP (% of Installed Capacity)

50.46%

IRR, PAYBACK and FACR

Internal Rate of Return .. (In %age)

23.56%

Payback Period of the Project is (In Years)

2 Years 4 Months

Fixed Assets Coverage Ratio (No. of times)

3.083

Major Queries/Questions Answered in the Report?

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

5. What is the structure of the Vitamin 'C' From Sorbitol Manufacturing Business and who are the key/major players ?
6. What is the total project cost for setting up Vitamin 'C' From Sorbitol Manufacturing Business?
7. What are the operating costs for setting up Vitamin 'C' From Sorbitol Manufacturing plant ?
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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’ From Sorbitol.” provides an insight into Vitamin ‘C’ From Sorbitol market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Vitamin ‘C’ From Sorbitol project. The report assesses the market sizing and growth of the Indian Vitamin ‘C’ From Sorbitol 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' From Sorbitol sector in India along with its business prospects. Through this report we have identified Vitamin 'C' From Sorbitol project as a lucrative investment avenue.

#DetailedProjectReport **#businessconsultant**
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#AscorbicAcidMarket **#VitaminManufacturing**
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#PharmaceuticalMarket

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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.

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

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- Raw Material & Manpower Availability**
- 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](#)



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- *We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad*

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- *Project Identification*
- *Detailed Project Reports/Pre-feasibility Reports*
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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

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 REPORT

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

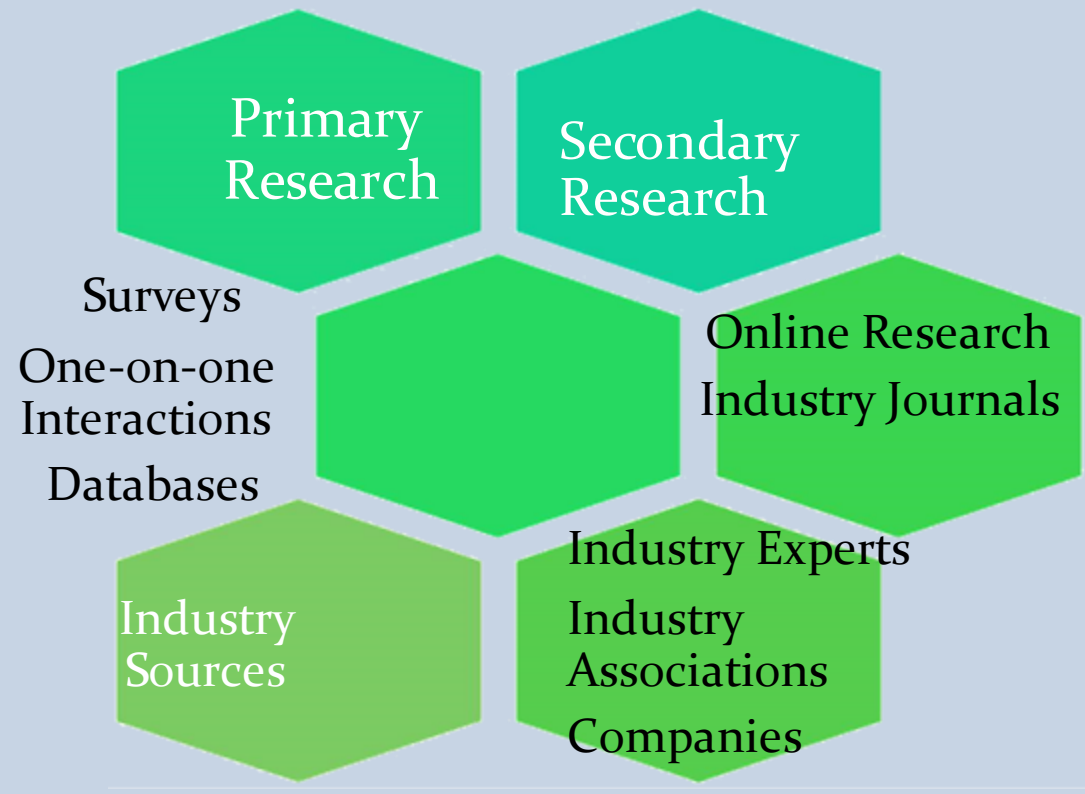
- ∞ To provide forecasts of key parameters which helps to anticipate the industry performance
- ∞ To help chart growth trajectory of a business by detailing the factors that affect the industry growth
- ∞ To help an entrepreneur/manager in keeping abreast with the changes in the industry
- ∞ To evaluate 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

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