



Production of

Artemisinin

from Artemisia Annua Plant

Industrial Production Estimation and Utilization of Artemisinin.



Introduction

Artemisinin and its semisynthetic derivatives are a class of medications used to treat Plasmodium falciparum malaria. Artemisinin-based combination treatments (ACTs) are now the standard treatment for malaria caused by Plasmodium falciparum and other Plasmodium species all throughout the world. Artemisinin is derived from the herb Artemisia annua, sometimes known as sweet wormwood, which has been used in Chinese traditional medicine for centuries.

A genetically altered yeast can be used to make a precursor molecule, which is considerably more efficient than using a plant. Sesquiterpene lactones with a unique peroxide bridge are found in artemisinin and its derivatives. Their antimalarial effects are due to the endoperoxide 1, 2, 4-trioxane ring.



About Artemisia Annua Plant

Sweet wormwood, also known as sweet annie, sweet sagewort, annual mugwort, or annual wormwood, is a widespread kind of wormwood native to temperate Asia that has naturalised in many places, including areas of North America. Artemisinin (or artesunate), a drug made from an extract of annua, is used to treat malaria.



The temperate climate regions of Asia, particularly the northern parts of China's Chahar and Suiyuan provinces, are home to *A. annua*. Wild populations have emerged in many parts of the world, including the United States, Argentina, and much of Europe.



Uses

The World Health Organization (WHO) recommends artemisinin or one of its derivatives as first-line treatment for all cases of malaria, usually in combination with a longer-acting companion medicine. The WHO advises three days of oral treatment with one of five artemisinin-based combination treatments (ACTs) for uncomplicated malaria.

The artemisinin derivative kills the parasites quickly in each of these combinations, but it is quickly removed from the body. The longer-acting companion medicine eliminates any remaining parasites while also providing some protection against reinfection.



Market Outlook

Plasmodium falciparum malaria is treated with artemisinin combination therapy (ACT). Due to the significant prevalence of malaria, especially in emerging and underdeveloped nations, this market has been growing in recent years. Because of its expanding application scope in the pharmaceutical industry, the worldwide artemisinin market is predicted to increase significantly over the period.

WHO recognition of artemisinin-based combination therapy (ACT) as a first-line treatment for malaria, demand for artemisinin has increased significantly over the last decade. Because of the huge production base of artemisinin herbs and the growing need for artemisinin-based therapy in malaria-endemic areas, Asia Pacific and Africa held the greatest market share for artemisinin and its derivatives.

The largest consumer regions are Europe and India. In 2015, Europe's consumption was estimated to be around 107 MT. India's consumption has fluctuated in recent years, accounting for roughly 26% of total in 2015.



Key Players

- 1. Fosun Pharmaceutical (Guilin Pharmaceutical)**
- 2. Sanofi S.A.**
- 3. Novartis AG**
- 4. KPC Pharmaceuticals**
- 5. Cipla Ltd.**

Machinery Photographs



Storage Tank For Ethanol



Condenser



Cooling Tower Boiler

Project at a Glance

| COST OF PROJECT | | | | MEANS OF FINANCE | | | |
|---------------------------------|-------------|---------------|---------------|-----------------------------|-------------|---------------|---------------|
| Particulars | Existing | Proposed | Total | Particulars | Existing | Proposed | Total |
| Land & Site Development Exp. | 0.00 | 55.00 | 55.00 | Capital | 0.00 | 196.50 | 196.50 |
| Buildings | 0.00 | 263.20 | 263.20 | Share Premium | 0.00 | 0.00 | 0.00 |
| Plant & Machineries | 0.00 | 183.00 | 183.00 | 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 | 26.50 | 26.50 | Cash Subsidy | 0.00 | 0.00 | 0.00 |
| Technical Knowhow Fees & Exp. | 0.00 | 20.00 | 20.00 | Internal Cash Accruals | 0.00 | 0.00 | 0.00 |
| Franchise & Other Deposits | 0.00 | 0.00 | 0.00 | Long/Medium Term Borrowings | 0.00 | 589.50 | 589.50 |
| Preliminary & Pre-operative Exp | 0.00 | 5.00 | 5.00 | Debentures / Bonds | 0.00 | 0.00 | 0.00 |
| Provision for Contingencies | 0.00 | 16.80 | 16.80 | Unsecured Loans/Deposits | 0.00 | 0.00 | 0.00 |
| Margin Money - Working Capital | 0.00 | 206.51 | 206.51 | | | | |
| TOTAL | 0.00 | 786.01 | 786.01 | TOTAL | 0.00 | 786.01 | 786.01 |

| Year | Annualised | | Book Value | Debt | Dividend | Retained Earnings | | Payout | Probable Market Price | P/E Ratio | Yield Price/ Book Value |
|------|------------|---------|------------|---------|----------|-------------------|---------|--------|-----------------------|-------------|-------------------------|
| | EPS | CEPS | | | | Per Share | | | | | |
| | Naira | Naira | Naira | Naira | Naira | % | Naira | % | Naira | No.of Times | % |
| 1-2 | 544.11 | 863.07 | 554.11 | 2400.00 | 0.00 | 100.00 | 544.11 | 0.00 | 544.11 | 1.00 | 0.00 |
| 2-3 | 946.90 | 1226.67 | 1501.01 | 1800.00 | 0.00 | 100.00 | 946.90 | 0.00 | 946.90 | 1.00 | 0.00 |
| 3-4 | 1324.40 | 1570.24 | 2825.41 | 1200.00 | 0.00 | 100.00 | 1324.40 | 0.00 | 1324.40 | 1.00 | 0.00 |
| 4-5 | 1670.69 | 1887.08 | 4496.10 | 600.00 | 0.00 | 100.00 | 1670.69 | 0.00 | 1670.69 | 1.00 | 0.00 |
| 5-6 | 1981.87 | 2172.70 | 6477.98 | 0.00 | 0.00 | 100.00 | 1981.87 | 0.00 | 1981.87 | 1.00 | 0.00 |

| Year | D. S. C. R. | | | Debt / - Deposit s Debt | Equity as- Equity | Total Net Worth | Return on Net Worth | Profitability Ratio | | | | | Assets Turnover Ratio | Current Ratio |
|---------|-------------------|----------------|---------|-------------------------------|-------------------------|-----------------------|---------------------------|---------------------|--------|--------|-------------------------|--------------|-----------------------------|------------------|
| | Individual | Cumulati ve | Overall | | | | | GPM | PBT | PAT | Net Contributi on | P/V Ratio | | |
| | (Number of times) | | | (Number of times) | | % | % | % | % | % | % | | | |
| Initial | | | | 3.00 | 3.00 | | | | | | | | | |
| 1-2 | 1.30 | 1.30 | | 1.55 | 1.55 | 2.06 | | 15.72% | 9.73% | 6.60% | 1272.55 | 78.55% | 1.78 | 1.52 |
| 2-3 | 1.77 | 1.52 | | 0.72 | 0.72 | 1.08 | | 20.00% | 15.20% | 9.84% | 1478.39 | 78.22% | 1.88 | 1.89 |
| 3-4 | 2.28 | 1.76 | 2.25 | 0.31 | 0.31 | 0.58 | | 22.75% | 18.88% | 12.05% | 1689.44 | 78.21% | 1.85 | 2.44 |
| 4-5 | 2.85 | 2.00 | | 0.11 | 0.11 | 0.31 | | 24.47% | 21.30% | 13.51% | 1900.49 | 78.21% | 1.73 | 3.10 |
| 5-6 | 3.47 | 2.25 | | 0.00 | 0.00 | 0.16 | | 25.43% | 22.80% | 14.42% | 2111.54 | 78.21% | 1.59 | 5.69 |

BEP**BEP - Maximum Utilisation Year****5****Cash BEP (% of Installed Capacity)****69.02%****Total BEP (% of Installed Capacity)****70.80%****IRR, PAYBACK and FACR****Internal Rate of Return .. (In %age)****31.00%****Payback Period of the Project is (In Years)****2 Years 3 Months****Fixed Assets Coverage Ratio (No. of times)****7.912**

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

- 5. What is the structure of the Artemisinin from Artemisia Annua Plant Manufacturing Business and who are the key/major players ?**
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❑ **IMPORT: ALL COUNTRIES**

- ***Other Heterocyclic Compounds with Oxygen Hetero - Atoms***
- ***Other Leaves Powder, Flurs and Pods Fresh/Dried W/N Cut Crushed/Powderd***

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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**

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- ✓ **The report provides a glimpse of government regulations applicable on the industry**
- ✓ **The report provides forecasts of key parameters which helps anticipate the industry performance and make sound business decisions**

Our Approach

Business



- **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**
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Scope of the Report

The report titled “Market Survey cum Detailed Techno Economic Feasibility Report on Artemisinin from Artemisia Annuua Plant.” provides an insight into Artemisinin from Artemisia Annuua Plant market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Artemisinin from Artemisia Annuua Plant project. The report assesses the market sizing and growth of the Indian Artemisinin from Artemisia Annuua Plant 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 Artemisinin from Artemisia Annua Plant sector in India along with its business prospects. Through this report we have identified Artemisinin from Artemisia Annua Plant project as a lucrative investment avenue.

Tags

#DetailedProjectReport #businessconsultant
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#BusinessPlan #ProjectReport
#InvestInStartups #StartupIdea
#startupinvestment #StartupBusinessPlan
#StartupPlan #Artemisinin
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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**

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,

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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**
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- ❖ **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**

- ❖ **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**

- ❖ **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**

- ❖ **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.**

- ❖ **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.**

- ❖ **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...*

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**

The main title 'Market Research Report' is centered on the page. It is written in a large, bold, blue sans-serif font with a prominent yellow outline. The text is arranged in three lines: 'Market' on the top line, 'Research' on the middle line, and 'Report' on the bottom line. The background of the entire page is a low-angle photograph of a modern city skyline with tall glass skyscrapers reaching towards a clear blue sky. A person in a white shirt and dark jacket is visible in the lower right, looking up at the buildings.

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

5. Key Financials and Analysis

5.1 Contact Information

5.2 Key Financials

5.3 Financial comparison

6. Industry Size & Outlook



CONTACT US



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