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

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Existing</th>
<th>Proposed</th>
<th>Total</th>
</tr>
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<tbody>
<tr>
<td>Land &amp; Site Development Exp.</td>
<td>0.00</td>
<td>55.00</td>
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<tr>
<td>Buildings</td>
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<td>263.20</td>
<td>263.20</td>
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<td>Plant &amp; Machineries</td>
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<td><strong>TOTAL</strong></td>
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<td>786.01</td>
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### MEANS OF FINANCE

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<td>1887.08</td>
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<td>Individ Cumulative Overall</td>
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<td>(Number of times)</td>
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<td>3.47</td>
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# BEP

## BEP - Maximum Utilisation Year

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<th>Year</th>
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## Cash BEP (% of Installed Capacity)

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<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>69.02%</td>
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</table>

## Total BEP (% of Installed Capacity)

<table>
<thead>
<tr>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>70.80%</td>
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</tbody>
</table>

# IRR, PAYBACK and FACR

## Internal Rate of Return (In %age)

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<tr>
<th>Rate</th>
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<tbody>
<tr>
<td>31.00%</td>
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## Payback Period of the Project (In Years)

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<th>Period</th>
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<tr>
<td>2 Years 3 Months</td>
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</tbody>
</table>

## Fixed Assets Coverage Ratio (No. of times)

<table>
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<tr>
<th>Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.912</td>
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</tbody>
</table>
Major Queries/Questions Answered in the Report?

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?

6. What is the total project cost for setting up Artemisinin from Artemisia Annua Plant Manufacturing Business?

7. What are the operating costs for setting up Artemisinin from Artemisia Annua Plant Manufacturing plant?

8. What are the machinery and equipment requirements for setting up Artemisinin from Artemisia Annua Plant Manufacturing plant?
9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Artemisinin from Artemisia Annua Plant Manufacturing plant?

10. What are the requirements of raw material for setting up Artemisinin from Artemisia Annua Plant Manufacturing plant?

11. Who are the Suppliers and Manufacturers of Raw materials for setting up Artemisinin from Artemisia Annua Plant Manufacturing Business?

12. What is the Manufacturing Process of Artemisinin from Artemisia Annua Plant?
13. What is the total size of land required for setting up Artemisinin from Artemisia Annua Plant Manufacturing plant?

14. What will be the income and expenditures for Artemisinin from Artemisia Annua Plant Manufacturing Business?

15. What are the Projected Balance Sheets of Artemisinin from Artemisia Annua Plant Manufacturing plant?

16. What are the requirement of utilities and overheads for setting up Artemisinin from Artemisia Annua Plant Manufacturing plant?
17. What is the Built up Area Requirement and cost for setting up Artemisinin from Artemisia Annua Plant Manufacturing Business?

18. What are the Personnel (Manpower) Requirements for setting up Artemisinin from Artemisia Annua Plant Manufacturing Business?

19. What are Statistics of Import & Export for Artemisinin from Artemisia Annua Plant?

20. What is the time required to break-even of Artemisinin from Artemisia Annua Plant Manufacturing Business?
21. What is the Break-Even Analysis of Artemisinin from Artemisia Annua Plant Manufacturing plant?

22. What are the Project financials of Artemisinin from Artemisia Annua Plant Manufacturing Business?

23. What are the Profitability Ratios of Artemisinin from Artemisia Annua Plant Manufacturing Project?

24. What is the Sensitivity Analysis-Price/Volume of Artemisinin from Artemisia Annua Plant Manufacturing plant?
25. What are the Projected Pay-Back Period and IRR of Artemisinin from Artemisia Annua Plant Manufacturing plant?

26. What is the Process Flow Sheet Diagram Of Artemisinin from Artemisia Annua Plant Manufacturing project?

27. What are the Market Opportunities for setting up Artemisinin from Artemisia Annua Plant Manufacturing plant?

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   - Chemical Properties

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   - Chemistry
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   - Purported Uses
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- Global Artemisinin Derivatives Market by Application
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Global Malaria Treatment Market

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- Route of Administration-Based Insights

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- By Treatment Type
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- By End User

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- Export: All Countries
- Other Heterocyclic Compounds with Oxygen Hetero-Atoms
- Other Leaves Powder, Flurs and Pods Fresh/Dried W/N Cut Crushed/Powdered
I MPORT: ALL COUNTRIES

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

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8. PROCESS FLOW DIAGRAM

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- LOCAL FARMERS READY, SEEK MORE ENLIGHTENMENT
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11. SUPPLIERS OF RAW MATERIAL

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   - RAW MATERIAL PHOTOGRAPHS
   - PRODUCT PHOTOGRAPHS

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- **Assumptions for Profitability workings**
- **Plant Economics**
- **Production Schedule**
- **Land & Building**

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  - Technical Knowhow
  - Provision of Contingencies

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  - Packing Material
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  - Consumable Store
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  Preference Share Capital
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- Resultant DER
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- Resultant BEP

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Annexure 20 :: Packing Material Cost Per Unit
- Annexure 21 :: Employees Expenses
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- Annexure 23 :: Power/Electricity Expenses
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Annexure 34 :: Tax on Profits

Annexure 35 :: Projected Pay-Back Period and IRR
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 its 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 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.
The report titled “Market Survey cum Detailed Techno Economic Feasibility Report on Artemisinin from Artemisia Annua Plant.” provides an insight into Artemisinin from Artemisia Annua Plant market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Artemisinin from Artemisia Annua Plant project. The report assesses the market sizing and growth of the Indian Artemisinin from Artemisia Annua 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:

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• 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.

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Niir Project Consultancy Services (NPCS) can provide Detailed Project Report on Artemisinin From Artemisia Annua Plant.
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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:

- Good Present/Future Demand
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The detailed project report covers all aspects 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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Our Approach

Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation

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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
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
Sectors We Cover

- 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

- 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.

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### Sectors We Cover

- 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.
<table>
<thead>
<tr>
<th>Sectors We Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potato And Potato Based Projects</td>
</tr>
<tr>
<td>Printing And Packaging</td>
</tr>
<tr>
<td>Real Estate, Leisure And Hospitality</td>
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<tr>
<td>Rubber And Rubber Products</td>
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<tr>
<td>Soaps And Detergents</td>
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<tr>
<td>Stationary Products</td>
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<tr>
<td>Spices And Snacks Food</td>
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<tr>
<td>Steel &amp; Steel Products</td>
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<tr>
<td>Textile Auxiliary And Chemicals</td>
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</tbody>
</table>
Sectors We Cover

- Township & Residential Complex
- Textiles And Readymade Garments
- Waste Management & Recycling
- Wood & Wood Products
- Water Industry (Packaged Drinking Water & Mineral Water)
- Wire & Cable
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
- Venturist/Capitalists
- Entrepreneur/Companies
- Industry Researchers
- Investment Funds
- Foreign Investors, NRI’s
- Project Consultants/Chartered Accountants
- Banks
- Corporates

Click here for list
Data Sources

Secondary Research
- Online Research
- Industry Journals

Primary Research
- Industry Experts
- Industry Associations
- Companies

Industry Sources
- Surveys
- One-on-one Interactions
- Databases

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Scope & Coverage

Indian Market

- Present Status (Indian & Global)
- Macro Environment
- Internal Market Analysis
- SWOT & Porters Analysis
- Demand Assessment
- Outlook & Forecasts (5Years)

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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
Contact Us

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