

Moringa Oleifera Powder.

Formulation and Processing of Moringa

Oleifera.



Moringa Processing Plant.

Dehydrated Drum Stick Powder-

Moringa Market is expected to Cross US\$ 7 Billion

By 2020



Introduction

Moringa oleifera, also known as horseradish tree, ben tree, or drumstick tree, is a small tree from India, Pakistan, and Nepal that has been used for generations in Eastern countries to treat and prevent diseases such as diabetes, heart disease, anemia, arthritis, liver disease, and respiratory, skin, and digestive disorders.

Moringa oleifera (Drumstick) is a plant that has been praised for its health benefits for thousands of years. It is very rich in healthy antioxidants and bioactive plant compounds.

Moringa is a plant that is native to the sub-Himalayan areas of India, Pakistan, Bangladesh, and Afghanistan. It is also grown in the tropics. The leaves, bark, flowers, fruit, seeds, and root are used to make medicine.

Moringa is used for “tired blood” (anemia); arthritis and other joint pain (rheumatism); asthma; cancer; constipation; diabetes; diarrhea; epilepsy; stomach pain; stomach and intestinal ulcers; intestinal spasms; headache; heart problems; high blood pressure; kidney stones; fluid retention; thyroid disorders; and bacterial, fungal, viral, and parasitic infections.

Moringa is also used to reduce swelling, increase sex drive (as an aphrodisiac), prevent pregnancy, boost the immune system, and increase breast milk production. Some people use it as a nutritional supplement or tonic.

Moringa oleifera tree has been considered as one of the most nutritious plants ever discovered with most of its benefits concentrated in its small green leaves. As is evident from its name, moringa powder is made from the freshly harvested leaves of the moringa oleifera tree. Fresh moringa leaf powder is deep green in color and has a rich nutty smell. This powder is prepared by drying the moringa leaves at low temperature such that the plant tissue reaches a fine powdered consistency.

The powder is then screened to remove impurities and then made into capsules and sealed in bags. The most amazing part is that once packed, this powder remains fresh for several months, retaining its nutritional value of vitamins, minerals, antioxidants, chlorophyll and complete amino-acids.

The powder prepared from drumstick can be used as a flavoring agent for various non-vegetarian dishes to enhance the flavour of chicken or meat and can also be used for drumstick soup preparation by adding spice powder and other ingredients. In addition it can also be used as a thickening agent for Sambar and chutney preparation, instant soup powder and in parotta along with potato as a flavour enhancer.

Uses of Moringa:

- **The bark, sap, roots, leaves, seeds, oil and flowers of moringa are used in traditional medicine in several countries.**
- **The thickened root of the plant has been used as horseradish in the past. This practice is now discouraged, as the root contains alkaloids, which can prove fatal on ingestion.**
- **The leaves of the plant serve culinary purposes. They are used as the greens in salads and also as pickles for seasoning.**

- **The leaves of moringa can also be used for scrubbing utensils and cleaning walls.**
- **The bark of the plant, which leads a coarse fiber, can also be used for the purpose of tanning.**
- **Due to its high nutritional value, moringa has been used to reduce malnutrition, specifically among infants and nursing mothers, in developing tropical countries. The leaves of the plant are consumed fresh and also stored as dried powder for months.**

- **Medicinally, the herb has been used for both treating and preventing certain medical conditions. However, there is not much scientific evidence to back these claims. In India, it is used to make a variety of Ayurveda medicines.**
- **It is considered to possess properties of an antibiotic, according to some scientific researches.**
- **The plant has also been used as an antibiotic for treating venomous bites and other conditions. It is also used to remedy rheumatism.**
- **The seeds of moringa are used to obtain oil, which can be used to cook a variety of dishes.**

Uses of Drumstick Powder:

The usage of drumstick powder is as per the below:

- **Drumstick powder is mainly used in curries, kormas, and dals and making tea.**
- **Apart from that it also makes savory cutlets.**
- **It imparts that special flavour to sambars and is used as a thickening agent. It gives a distinct palatable taste and is a rich source of glutamic acid.**
- **It is highly useful in joint pains.**

Machinery Photographs



PEELING



FILLING WEIGHING



TRAY DRIER



BELT CONVEYOR



STORAGE TANK

Market Outlook

India is the largest producer of moringa, with an annual production of 1.1 to 1.3 million tonnes of fruits from an area of 380 km². Among Indian states, Andhra Pradesh leads in both area and production (156.65 km²) followed by Karnataka (102.8 km²) and Tamil Nadu (74.08 km²), a pioneering state having varied genotypes from diversified geographical areas and introductions from Sri Lanka.

India is the most advanced supplier of Moringa, but African and American countries are developing their production. There has also been extensive research on Moringa cultivation in India. Given its significant health moringaexportindia and nutritional benefits, Moringa has the potential not only for as a health food supplement but also as a nutritional supplement in the fight against malnutrition. In addition, countries like USA and EU have developed a standard for regulating Moringa Products. In order to enter Western Hemisphere health food markets, it is important for any Moringa products to pass food regulations and quality control for Western markets. The global standardization of Moringa Products is attracting more consumer demand for the product.

Dehydrated drumstick powder is an integral part of Indian cuisine and is extensively used in many food and curry preparations. It is a mass consumption item used round the year. Apart from in dividable households, it is used in large quantities in restaurants, dhabas, road-side eateries, hotels and canteens and many such places. But the conventional method of eating the fresh pod is not easily available instantly. Hence dehydrated drumstick powder has become acceptable.

Moringa Market is estimated more than US\$ 4 billion, which expected to cross US\$ 7 billion by 2020 @ 9 percent per annum.

Tamil Nadu is one of the largest producers of moringa with an annual production of 3.6 lakh tonnes of tender fruits from an area of 7343 ha. Among the districts in the state, Tuticorin leads in both area and production (1646 ha) followed by Dindigul (1440 ha), Theni (1397 ha), Karur (810 ha) and Erode (633 ha). Madurai, Perambalur, Tirunelveli and Cuddalore also have considerable area under moringa. The remaining districts have a total area of 333 ha only.

Few Indian Major Players are as under

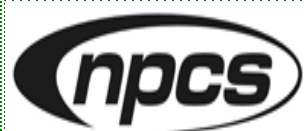
- **Thylakoid Biotech Pvt. Ltd.**
- **Daehsan Trading India Pvt. Ltd.**
- **Earth Expo Company**
- **G.B.S. Flour Mills And Food Products**
- **Herbs & Crops Overseas**

Project at a Glance

PROJECT AT A GLANCE

(` in lacs)

| COST OF PROJECT | | | | MEANS OF FINANCE | | | |
|---------------------------------|-------------|---------------|---------------|-----------------------------|-------------|---------------|---------------|
| Particulars | Existing | Proposed | Total | Particulars | Existing | Proposed | Total |
| Land & Site Development Exp. | 0.00 | 0.00 | 0.00 | Capital | 0.00 | 27.54 | 27.54 |
| Buildings | 0.00 | 0.00 | 0.00 | Share Premium | 0.00 | 0.00 | 0.00 |
| Plant & Machineries | 0.00 | 56.73 | 56.73 | Other Type Share Capital | 0.00 | 0.00 | 0.00 |
| Motor Vehicles | 0.00 | 5.00 | 5.00 | Reserves & Surplus | 0.00 | 0.00 | 0.00 |
| Office Automation Equipments | 0.00 | 17.25 | 17.25 | Cash Subsidy | 0.00 | 0.00 | 0.00 |
| Technical Knowhow Fees & Exp. | 0.00 | 5.00 | 5.00 | Internal Cash Accruals | 0.00 | 0.00 | 0.00 |
| Franchise & Other Deposits | 0.00 | 0.00 | 0.00 | Long/Medium Term Borrowings | 0.00 | 82.62 | 82.62 |
| Preliminary & Pre-operative Exp | 0.00 | 1.00 | 1.00 | Debentures / Bonds | 0.00 | 0.00 | 0.00 |
| Provision for Contingencies | 0.00 | 6.00 | 6.00 | Unsecured Loans/Deposits | 0.00 | 0.00 | 0.00 |
| Margin Money - Working Capital | 0.00 | 19.18 | 19.18 | | | | |
| TOTAL | 0.00 | 110.16 | 110.16 | TOTAL | 0.00 | 110.16 | 110.16 |



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 | 4.15 | 8.78 | 14.15 | 24.00 | 0.00 | 100.00 | 4.15 | 0.00 | 4.15 | 1.00 | 0.00 |
| 2-3 | 7.41 | 11.39 | 21.56 | 18.00 | 0.00 | 100.00 | 7.41 | 0.00 | 7.41 | 1.00 | 0.00 |
| 3-4 | 10.64 | 14.06 | 32.21 | 12.00 | 0.00 | 100.00 | 10.64 | 0.00 | 10.64 | 1.00 | 0.00 |
| 4-5 | 13.72 | 16.66 | 45.92 | 6.00 | 0.00 | 100.00 | 13.72 | 0.00 | 13.72 | 1.00 | 0.00 |
| 5-6 | 16.59 | 19.14 | 62.51 | 0.00 | 0.00 | 100.00 | 16.59 | 0.00 | 16.59 | 1.00 | 0.00 |



Project at a Glance

| Year | D. S. C. R. | | | Debt / - Deposits Debt | Equity as- Equity | Total Net Worth | Retur n on Net Worth | Profitability Ratio | | | | | Assets Turnov er Ratio | Curre nt Ratio |
|---------|-------------------|----------------|-------------|---------------------------------|-------------------------|-----------------------|-------------------------------|---------------------|-------|--------|-------------------------|--------------|---------------------------------|----------------------|
| | Individ ual | Cumulat ive | Overa ll | | | | | GPM | PBT | PAT | Net Contri bution | P/V Ratio | | |
| | (Number of times) | | | (Number of times) | | % | % | % | % | % | % | | | |
| Initial | | | | 3.00 | 3.00 | | | | | | | | | |
| 1-2 | 1.30 | 1.30 | | 1.70 | 1.70 | 4.69 | 6.44% | 1.64% | 1.32% | 144.94 | 16.78% | 3.98 | 1.08 | |
| 2-3 | 1.63 | 1.46 | | 0.83 | 0.83 | 3.10 | 7.30% | 2.97% | 2.03% | 167.99 | 16.67% | 4.21 | 1.17 | |
| 3-4 | 2.02 | 1.63 | 2.01 | 0.37 | 0.37 | 2.10 | 7.88% | 3.92% | 2.54% | 191.97 | 16.66% | 4.24 | 1.28 | |
| 4-5 | 2.49 | 1.82 | | 0.13 | 0.13 | 1.49 | 8.26% | 4.57% | 2.91% | 215.94 | 16.66% | 4.15 | 1.41 | |
| 5-6 | 3.04 | 2.01 | | 0.00 | 0.00 | 1.11 | 8.51% | 5.01% | 3.17% | 239.91 | 16.66% | 3.99 | 1.68 | |



Project at a Glance

BEP

| | |
|---|------------------|
| BEP - Maximum Utilisation Year | 5 |
| Cash BEP (% of Installed Capacity) | 66.91% |
| Total BEP (% of Installed Capacity) | 69.83% |
| IRR, PAYBACK and FACR | |
| Internal Rate of Return .. (In %age) | 27.99% |
| Payback Period of the Project is (In Years) | 2 Years 3 Months |
| Fixed Assets Coverage Ratio (No. of times) | 33.120 |



Major Queries/Questions Answered in the Report?

- 1. What is Moringa Oleifera (Drumstick) Powder Processing industry ?**
- 2. How has the Moringa Oleifera (Drumstick) Powder Processing industry performed so far and how will it perform in the coming years ?**
- 3. What is the Project Feasibility of Moringa Oleifera (Drumstick) Powder Processing Plant ?**
- 4. What are the requirements of Working Capital for setting up Moringa Oleifera (Drumstick) Powder Processing plant ?**

- 5. What is the structure of the Moringa Oleifera (Drumstick) Powder Processing Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Moringa Oleifera (Drumstick) Powder Processing plant ?**
- 7. What are the operating costs for setting up Moringa Oleifera (Drumstick) Powder Processing plant ?**
- 8. What are the machinery and equipment requirements for setting up Moringa Oleifera (Drumstick) Powder Processing plant ?**

- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Moringa Oleifera (Drumstick) Powder Processing plant ?**
- 10. What are the requirements of raw material for setting up Moringa Oleifera (Drumstick) Powder Processing plant ?**
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up Moringa Oleifera (Drumstick) Powder Processing plant ?**
- 12. What is the Manufacturing Process and Formulations of Moringa Oleifera (Drumstick) Powder Processing plant ?**

- 13. What is the total size of land required for setting up Moringa Oleifera (Drumstick) Powder Processing plant ?**
- 14. What will be the income and expenditures for Moringa Oleifera (Drumstick) Powder Processing 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 Moringa Oleifera (DrumStick) Powder ” provides an insight into the market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Moringa Oleifera (DrumStick) Powder project. The report assesses the market sizing and growth of the Indian Moringa Oleifera (DrumStick) Powder 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 Moringa Oleifera (DrumStick) Powder sector in India along with its business prospects. Through this report we have identified Moringa Oleifera (DrumStick) Powder project as a lucrative investment avenue.

Tags

Drumstick Powder Manufacturing, Drum Stick Powder Making, Benefits and Uses of Moringa Powder, Production of Drumstick Leaves Powder, Drumsticks Powder Making Process, How to Make Moringa Powder, Preparation of Drumstick Leaves Powder, Moringa Oleifera Cultivation, Drumstick Powder Manufacture in India, Drumsticks Powder Making Plant, Moringa Leaves Powder Making Plant, Dehydrated Drumstick Powder Production, Moringa Leaf Powder Processing, Drumstick and Drumstick Powder Processing, Drumstick Powder Production, Drumstick Leaf Powder Processing, How to Make Moringa Powder, How to Dry Moringa and Make Green Powder, Drumstick Leaf Powder Manufacturing Plant, Drum Stick Powder Making Unit, Processing of Moringa Oleifera Leaves Powder, Growing and Processing Moringa Leaves, Moringa Leaf Powder, Process for Producing Drumstick Powder, Moringa Leaf Powder Production, Moringa Plantation Business Plan, Moringa Leaves Powder Making Machine, Drumstick Powder Processing project ideas, Projects on Small Scale Industries, Small scale industries projects ideas, Moringa Leaves Powder Making Based Small Scale Industries Projects, Project profile on small scale industries, How to Start Drumstick Powder Processing Industry in India,

Moringa Leaves Powder Production Projects, New project profile on Moringa Leaves Powder Production industries, Project Report on Drumstick Powder Processing Industry, Detailed Project Report on Moringa Leaves Powder Production, Project Report on Drumstick Powder Processing, Pre-Investment Feasibility Study on Moringa Leaves Powder Production, Techno-Economic feasibility study on Drumstick Powder Processing, Feasibility report on Drumstick Powder Processing, Free Project Profile on Moringa Leaves Powder Production, Project profile on Drumstick Powder Processing, Download free project profile on Moringa Leaves Powder Production, Industrial Project Report, Project consultant, Project consultancy, Startup Project for Moringa Leaves Powder Making Business, Dehydrated Drum Stick Powder, Drumstick Leaves Powder, Processing Moringa Leaves

**Niir Project Consultancy Services (NPCS)
can provide Detailed Project Report on
Moringa Oleifera Powder.**

**Formulation and Processing of Moringa Oleifera.
Moringa Processing Plant.**

Dehydrated Drum Stick Powder-

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See more

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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.



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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](#)



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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.



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



Contact us

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Take a look at NIIR PROJECT CONSULTANCY SERVICES on #StreetView

<https://goo.gl/VstWkd>



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