

# Aloe Vera Processing, Cultivation, Extraction, Formulations & Products

(Thermal Burns, Anatomy of Aloe Vera Leaves, Sowing, Irrigation, Antimutagen of Aloe Plants, Aloe Vera & Gibberellin, Radiation, Burns & Frostbite, Herbal Remedies, Homogenization, Topical Compositions, Extract of Lavender, Herbal Formulations, Aloe Vera Gel Toothpaste, Aloe Gel and Powder, Aloe Vera Gel Eye Drops)

# Introduction

Aloe Vera is a plant species of the genus Aloe. It grows wild in tropical climates around the world and is cultivated for agricultural and medicinal uses. Aloe is also used for decorative purposes and grows successfully indoors as a potted plant.

It is found in many consumer products including beverages, skin lotion, cosmetics, or ointments for minor burns and sunburns. There is little scientific evidence of the effectiveness or safety of Aloe Vera extracts for either cosmetic or medicinal purposes. Studies finding positive evidence are frequently contradicted by other studies.

## **Market Outlook**

Aloe Vera is a one of the succulent plant species which grows suitably in tropical climatic conditions. Cultivation of aloe-vera plant is primarily done for medicinal and agricultural uses all over the world. An aloe-vera plant generates two substances i.e. gel and latex. Aloe-Vera gel is one of the healthiest parts of the aloe-Vera plant and is extracted from leaf's inner layer and can be used in its raw form. However, aloe-vera latex is a yellowish fluid which is not recommended for direct consumption.

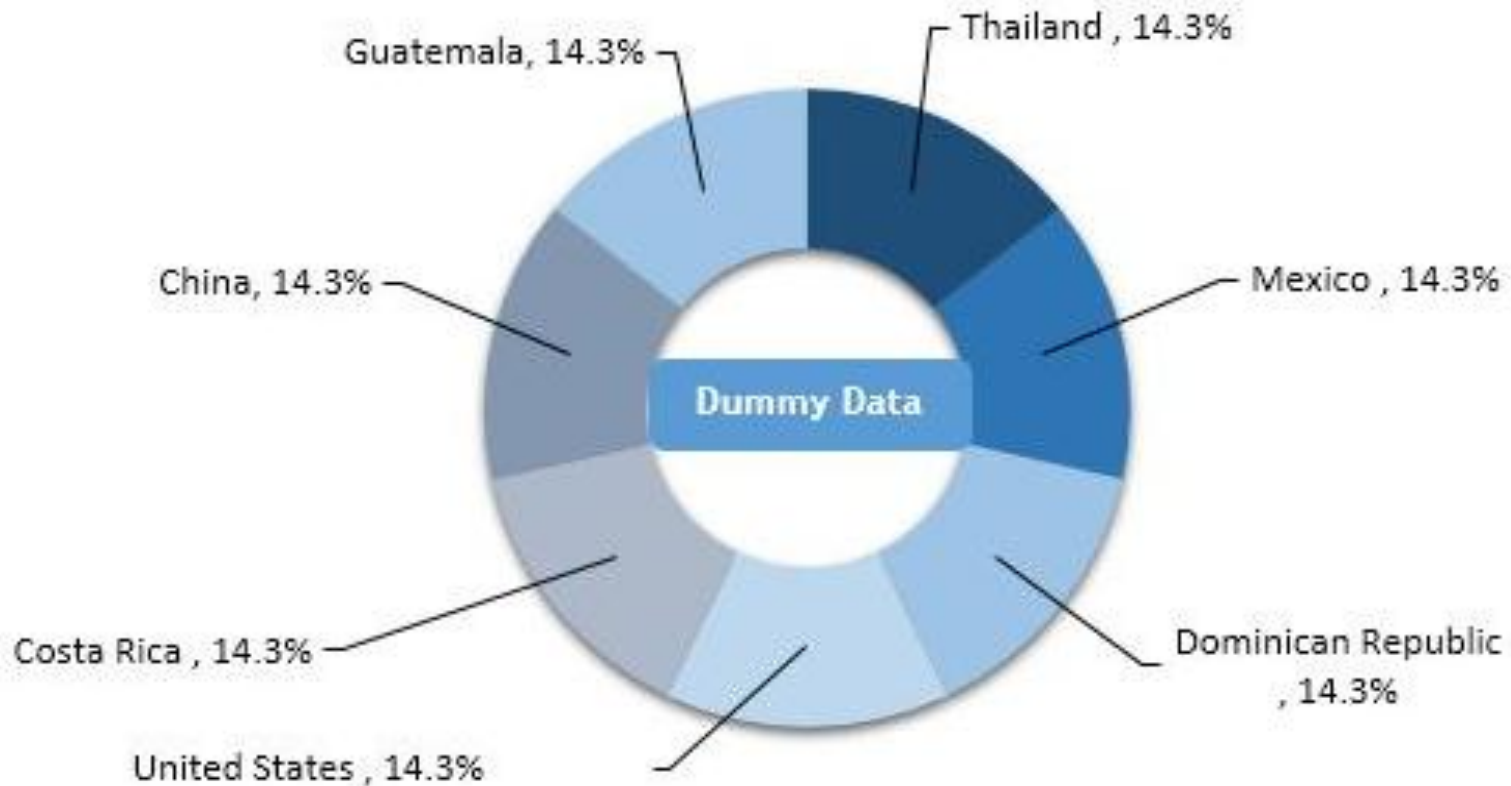
Global aloe-vera extracts market is anticipated to expand at a compound annual growth rate (CAGR) of more than seven percent.

Aloe-Vera whole leaf extracts was estimated to be the largest segment in 2015 followed by aloe-vera gel extracts. In near future, Aloe-Vera whole leaf extracts market is further projected to witness the highest CAGR of ~% during the forecast period i.e. 2015-2021.



The global aloe vera gel market was worth US\$ 465 Million in 2016, growing at a CAGR of around 11% during 2009-2016. The market has been growing steadily over the last decade driven by varied and increasing usage of Aloe Vera gel in food, health care and cosmetic industries.

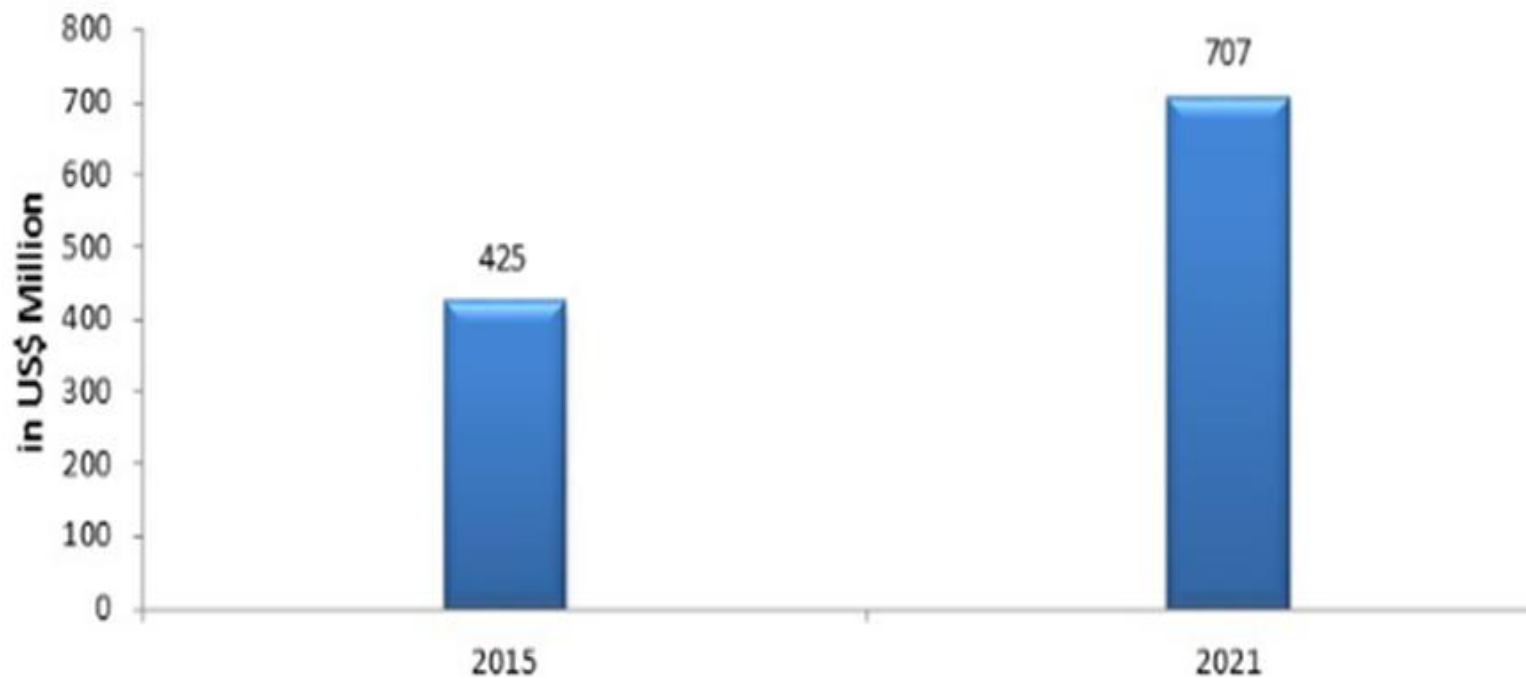
# Aloe Vera Market



The global aloe vera extracts market, estimating global revenues to surpass US\$ 3.3 Bn by 2026. The global aloe vera extracts market is anticipated to expand at 7.4% CAGR through 2026.

The global market for Aloe Vera gel as a raw product reached a value of US\$ 425 Million in 2015, exhibiting a CAGR of nearly 11% during 2008-2015.

## Global: Aloe Vera Market





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## 6. Research Findings

- Aloe vera and the inflamed synovial pouch model
- Isolation of a stimulatory system in an Aloe extract
- Aloe vera as a biologically active vehicle for hydrocortisone acetate.
- The stimulation of postdermabrasion wound healing with stabilized aloe vera gel-polyethylene oxide dressing
- Aloe-emodin effects on arylamine N-acetyltransferase activity in the bacterium *Helicobacter pylori*.
- Influence of aloe vera on the healing of dermal wounds in diabetic rats.

- Influence of Aloe vera on the glycosaminoglycans in the matrix of healing dermal wounds in rats.
- Immunochemical distinction of Aloe vera,
- A. arborescens, and A. chinensis gels.
- Aloe barbadensis extracts reduce the production of interleukin-10 after exposure to ultraviolet radiation.
- Influence of Aloe vera on collagen characteristics in healing dermal wounds in rats.
- Influence of Aloe vera on collagen turnover in healing of dermal wounds in rats.
- Studies of aloe. VI. Cathartic effect of isobarbaloin.
- [The action of an aqueous extract of Aloe barbadensis
- Miller in an in-vitro culture of Trichomonas vaginalis].
- Biotherapy with the pineal immunomodulating hormone melatonin versus melatonin plus aloe vera in untreatable advanced solid neoplasms.



- Nitro chemopreventive effects of plant polysaccharides
- (Aloe barbadensis Miller, Lentinus edodes, Ganoderma lucidum and Coriolus versicolor).
- The therapeutic potential of Aloe Vera in tumor-bearing rats.
- In vitro angiogenic activity of Aloe vera gel on calf pulmonary artery endothelial (CPAE) cells
- Isolation of cDNA for an NADP-malic enzyme from Aloe arborescens

- Prevention of ultraviolet radiation-induced
- suppression of accessory cell function of Langerhans cells by Aloe vera gel components
- Beneficial effect of Aloe on wound healing in an excisional wound model.
- Acceleration of the alcohol oxidation rate in rats with aloin, a quinone derivative of Aloe.
- Activation of a mouse macrophage cell line by acemannan: the major carbohydrate fraction from Aloe vera gel.
- Isolation of a cDNA for a phosphoenolpyruvate carboxylase from a monocot CAM-plant, Aloe arborescens: structure and its gene expression.
- A purgative action of barbaloin is induced by
- Eubacterium sp. strain BAR, a human intestinal anaerobe, capable of transforming barbaloin to aloe-emodin anthrone.

- Studies of aloe. V. Mechanism of cathartic effect.
- Studies of aloe. IV. Mechanism of cathartic effect.
- Prevention of ultraviolet radiation-induced
- suppression of contact and delayed hypersensitivity by Aloe barbadensis gel extract.
- Rhein and aloe emodin kinetics from senna laxatives in man.
- Pharmacokinetic metabolic studies with  $^{14}\text{C}$ -aloe emodin after oral administration to male and female rats.
- Some pharmacological actions of aloe extracts and
- Cassia abbreviata on rats and mice.
- Effects of low molecular constituents from Aloe vera gel on oxidative metabolism and cytotoxic and bactericidal activities of human neutrophils
- Studies of aloe. III. Mechanism of cathartic effect.

- An anti-complementary polysaccharide with immunological adjuvant activity from the leaf
- parenchyma gel of Aloe vera.
- [Effects of aloe extracts, aloctin A, on gastric secretion and on experimental gastric lesions in rats].
- Effect of water extracts of aloe and some herbs in decreasing blood ethanol concentration in rats.
- Aloe vera
- Comparative evaluation of aloe vera in the management of burn wounds in guinea pigs.
- The glucomannan system from Aloe vahombe (liliaceae).
- The Aloe vera phenomenon: a review of the properties and modern uses of the leaf parenchyma gel



## 7. Clinical Trails

- Heart Disease
- Prevention of Atheromatous Heart Disease
- Lowered Blood Pressure
- Immunological Benefits : Cancer, Tumours, HIV & AIDS
- A Study of 29 AIDS Patients
- Cancer Research
- Aloe Vera & AIDS Research
- Aloe vera may mimic azt without toxicity
- Antimetastatic Properties of Aloe Juice
- Aloemannan, Significant Antitumor Efficacy
- Antimutagen of Aloe plants
- Diabetes

- Aloe vera & gibberellin, anti-inflammatory activity in diabetes
- Normalized Blood Glucose Level
- Antidiabetic activity of Aloes: preliminary clinical & experimental observations
- Aloe vera-anti-edemic & analgesic activity in diabetes
- Gastrointestinal Disorders
- Colitis & Crohn's Disease
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- Research - Ulcers, Stress Related
- A double-blind trial of a celandin, Aloe Vera & psyllium laxative preparation in adult patients with constipation
- Studies of Aloe III. Mechanism of Cathartic Effect

- Aloe Vera to treat gastrointestinal Problems
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- Aloe Reduction In Ulcers, Erosions & Hemorrhanges in the Stomach
- Radiation, Burns & Frostbite
- Aloe vera gel hindered wound healing of experimental second-degree burns: a quantitative controlled study.
- Experimental & clinical observations on frostbite
- Alvagel as a therapeutic agent in the treating of radiation burns
- Beneficial effects of aloe in wound healing
- The external use of Aloes
- Treatment of experimental frostbite with pentoxifylline & Aloe vera cream

- Psoriasis
- Management of psoriasis with Aloe vera extract in a hydrophilic cream: a placebo-controlled, double-blind study.
- Skin Disorders/Inflammation
- Anti-inflammatory activity of Aloe vera against a spectrum of irritants
- Wound healing. Oral and topical activity of Aloe vera.
- Processed Aloe vera administered and topically inhibits inflammation
- Uses of Aloe in treating leg ulcers & dermatosis
- Anti-inflammatory and wound healing activity of a growth substance in Aloe vera.



- Anti-inflammatory & wound healing properties of Aloe vera
- Effects of topical medications on the healing of open pad wounds in dogs
- Antiinflammatory activity of extracts from Aloe vera gel.
- Skin Disorders Virus: Bacteria, Fungi & Parasites
- Dental Disorders
- Aloe Vera Gel Toothpaste
- Aloe in Dentistry
- Why Aloe may work
- Use of Whole-Leaf Aloe

## 8. Patent

- U.S. Patent 6, 027, 728 (2000)
- Herbal Skin regeneration and method
- A method for skin regeneration comprising Description
- Background of the Invention
- Summary of the Invention
- Detailed Description of the Invention
- U.S. Pat. 6, 030, 622
- Herbal Extract composition and method
- (2000) with immune boosting capability
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- Summary of the Invention

- Detailed Description of the Preferred Embodiments
- Extract Preparation
- Preparation of Extract of ARUM ALOE
- Preparation of Extract of POMEGRANATE.
- Preparation of Extract of TEA.
- Preparation of Extract of HIBISCUS.
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- Preparation of Combined Extracts of ARUM, POMEGRANATE, TEA and HIBISCUS
- In Vitro Blast Transformation of Lymphocytes
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- In Vitro Blastogenesis of Peripheral Blood Lymphocytes from Patients With Renal Failure

- Stimulation of Cytokine Production in
- Normal Persons
- In Vitro Inhibition of gp 120 Binding to MT-4 Cells Measured with OKT4A Monoclonal Antibody.
- In Vitro Inhibition of gp 120 Binding to MT-4 Cells Measured with Anti-gp 120 Monoclonal Antibody.
- Chemical Analysis of Combined Extracts
- Aloe vera gel toothpaste
- United States Patent 5, 294, 434 March 15, 1994
- Summary of Invention
- Detailed Description
- United States Patent 5,989,560
- November 23, 1999
- Herbal intestinal tract cleanser
- Field of the Invention



- Background of the Invention
- Summary of the Invention
- Detailed Description of the Preferred Embodiments
- Aloe vera ointment
- United States Patent 4,725,438 February 16, 1988
- Field of the Invention
- Background of the Invention
- Summary of the Invention
- Objects of the Invention
- Description of the Preferred Embodiment
- Summary of the Achievements of the Objects of the Invention
- United States Patent 5,288,492 February 22, 1994
- Decongestant composition containing aloe vera
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- Field of the Invention
- Description of the Prior Art
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- Detailed Description of the Invention
- United States Patent: 6,004,558
- Technical Field
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- Summary of the Invention
- Detailed Description of the Invention
- Separation of primary isoflavones using
- chromatographic techniques
- Method for extraction and removal of genistein,
- daidzein, formononetin and biochanin
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- Herbs and Preparation of Formulations
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- United States Patent 5,904,924 May 18, 1999
- Green nutritional powder composition
- Summary of the Invention
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- U.. Pat. 5,876,728 (1999)
- National Composition extracted from Plants
- used in the treatment of Cancer
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- Summary of the Invention
- U.S. Pat. 4591, 387 (1986)
- Aloe Vera Leaf Processor
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- U.S. Pat. 5, 215, 760 (1993)
- Detailed Description of the Preferred Embodiments
- U.S. Pat. 4,309,180 (1983)
- Cosmetic facial preparation containing aloe vera
- Detailed Description of the Preferred Embodiment
- U.S. Pat. 6,013, 259 (2000)
- Aloe Vera Ophthalmic Solution
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- Kushta Abrak Safaid
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Aloe Vera Farming Business, Commercial Cultivation of Aloe Vera, Growing Aloe Vera, Cultivation of Aloe Vera, Aloe Vera Plant Business Plan, Aloe Vera Business Plan in India, Aloe Vera Farming, Aloe Vera Farming in India, Cultivation Methods of Aloe Vera, How to Plant Aloe Vera, Aloe Vera Cultivation & Processing, Aloe Vera Products, Growing Aloe Vera, Aloe Vera Processing Plant, Herbal Formulations, Aloe Vera Gel Making Process, How to Process Aloe Vera, Aloe Vera Processing Machine, Processing Methods for Aloe Vera Leaf, How to Make Aloe Vera Gel, Aloe Vera Processing Line, Equipment for Aloe Vera Plant, Aloe Vera Processing and Products, Processing of Aloe Vera Leaf Gel, Aloe Vera Leaf Processing, Commercial Extraction of Gel From Aloe Vera, Process for Preparing Extracts of Aloe Vera, Gel Extraction from Aloe Vera Leaves, Medicinal Plant Aloe Vera, Medicinal Aloe Vera Plant, Anatomy of Aloe Vera Leaves, Aloe (Aloe Vera) Investment Opportunity, Process for Aloe Gel, Aloe Arborescens, Pharmacological Actions of Aloe Extracts and Cassia Abbreviata on Rats And Mice, Parenchyma Gel of Aloe Vera, Aloe Vera & Gibberellin, Antidiabetic Activity of Aloes, Aloe Vera Ointment, Turmeric & Aloe Vera for Treating Health Ailments, Aloe Vera Leaf Processor, Extract of Lavender, Topical Compositions, Pharmaceutical/Cosmetic Compositions, Drying, Blending,



Milling, Ultracentrifugation, Size Exclusion Chromatography, Preparation of Bulk Pharmaceutical, Extraction Process, Leaf Harvesting and Handling, NPCS, Niir, Process Technology Books, Business Consultancy, Business Consultant, Project Identification and Selection, Preparation of Project Profiles, Startup, Business Guidance, Business Guidance to Clients, Startup Project, Startup Ideas, Project for Startups, Startup Project Plan, Business Start-Up, Business Plan for Startup Business, Great Opportunity for Startup, Small Start-Up Business Project, Best Small and Cottage Scale Industries, Startup India, Stand Up India, Small Scale Industries, New Small Scale Ideas for Aloe Vera Farming, Aloe Vera Leaf Processing Business Ideas You Can Start on Your Own, Indian Aloe Vera Gel Processing Industry, Small Scale Aloe Vera Leaf Processing, Guide to Starting and Operating Small Business, Business Ideas for Aloe Vera Gel Processing, How to Start Aloe Vera Gel Manufacturing Business, Starting Aloe Vera Farming, Start Your Own Aloe Vera Gel Production Business,

Aloe Vera Farming Business Plan, Business Plan for Aloe Vera Leaf Processing, Small Scale Industries in India, AloeVera Farming Based Small Business Ideas in India, Small Scale Industry You Can Start on Your Own, Business Plan for Small Scale Industries, Set Up Aloe Vera Leaf Processing, Profitable Small Scale Manufacturing, How to Start Small Business in India, Free Manufacturing Business Plans, Small and Medium Scale Manufacturing, Profitable Small Business Industries Ideas, Business Ideas for Startup

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# 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**

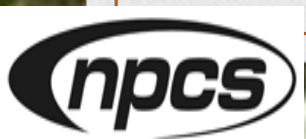
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- *We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad*



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- *Detailed Project Reports/Pre-feasibility Reports*
- *Business Plan*
- *Industry Trends*
- *Market Research Reports*
- *Technology Books and Directory*
- *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



# 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*



- *Fruits & Vegetables Processing*
- *Ferro Alloys Based Projects*
- *Fertilizers & Biofertilizers*
- *Ginger & Ginger Based Projects*
- *Herbs And Medicinal Cultivation And Jatropha (Biofuel)*
- *Hotel & Hospitability 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.*

## 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*



- *Township & Residential Complex*
- *Textiles And Readymade Garments*
- *Waste Management & Recycling*
- *Wood & Wood Products*
- *Water Industry(Packaged Drinking Water & Mineral Water)*
- *Wire & Cable*

# 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**

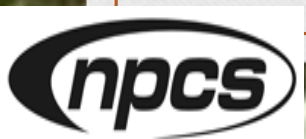
**Mobile: +91-9811043595**

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

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