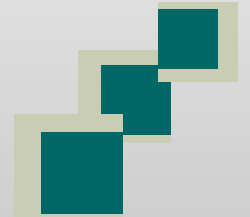


Cultivation and Processing of Selected Medicinal Plants

**(AMLA, ASHOK, ASHWAGANDHA, BAEL ,
BELLADONNA, BHUMI AMALAKI, BRAHMI,
CHANDAN, CINCHONA, CORKWOOD TREE,
DIOSCOREA COMPOSITA HEMSL, AMMI MAJUS
LINN, CHIRATA)**



Introduction

Medicinal plants are important for human health. These plants have been used from the prehistoric times to present day. These plants based medicines are consumed in all civilizations. It is believed that the herbal medicine can give good effect to body without causing side effects to human life. Medicinal plants are not only a major resource base for the traditional medicine & herbal industry but also provide livelihood and health security to a large segment of Indian population. Medicinal plants constitute a large segment of the flora, which provide raw materials for use by various industries. They have been used in the country for a long time for their medicinal properties. These plants are staging a comeback and herbal renaissance is happening all over the globe. The herbal medicines today symbolise safety in contrast to the synthetics that are regarded as unsafe to human and environment. Although herbs had been prized for their medicinal, flavouring and aromatic qualities for centuries, the synthetic products of the modern age surpassed their importance, for a while.

However, the blind dependence on synthetics is over and people are returning to the naturals with hope of safety and security. Besides, the usage of medical plants has been increasing as an important role that can support the economic system.

Ayurveda, the well known indigenous system of medicine, is still regarded as a well organised traditional health care for large sections of rural as well as urban population of India. The medicinal plants sector at present is not well organised and needs special attention. Although different Ministries and Department in the Government sector and NGOs and individuals in the private sectors are making their efforts in different directions, yet there is a need to co ordinate and systematize. The medical plants for health are used as herbal treatments and therapies that can be new habits for culture. The market is very competitive and could easily be oversupplied. This book basically deals with therapeutic potential of medicinal plants, medicinal plants priorities in Indian medicines diverse studies and implications, recent developments of some natural products, production and management of medical plants on farms, classification, identification and naming of medicinal plants, pests and pest management in medicinal plants, Ajmalicine (Raubasine): a medicinally important alkaloid from catharanthus roseus (vinca rosea), cultivation of rutin bearing eucalyptus species, iridoids and secoiridoids of the genus swertia, studies on medico ethnobotany, tropical periwinkle, tulsi, etc.

The sheer magnitude of the people using plants for health care (about 70% of country's population) and the diversity of plant species used in these practices make the assessment of demand and supply of medicinal plants in the country a complex affair. The varied agro-climate conditions in the India make it suitable for growing a wide range and variety of valuable medicinal plants. India's export of Ayurvedic products is increasing very fast it reached to 96,167.20 in the year 20011-13. The growing demand is putting a heavy strain on the existing resources. WHO estimated that 80% of the population of the developing countries relies on traditional medicines, mostly plant drugs, for their primary health care needs.

The trade in herbal medicine alone is estimated to have exceeded US \$ 68.7 during 2013.

The annual demand of botanical raw drugs in the country has been estimated at 3,19,500 MT for the year 20011-2013. There is global resurgence in traditional and alternative health care systems resulting in world herbal trade which stands at US\$ 120 billion and is expected to reach US\$ 7 trillion by 2050.

Indian share in the world trade, at present, however, is quite low. In state wise assessment of demand for 10 major states it works out to 33000 tons per State per year totaling to approximately 3.5 lakh tons for the country as a whole. However, individual pharmacy requirement works out to 1292 tons (approx.) annually. Assuming that there are 100 major pharmacies, the country's demand for crude drugs on this basis comes to 1.29 lakh tons per year. Combining the averages of the two sources, the demand estimate is worked out to 2.4 lakh tons of crude drugs per 122 annum.

The present book covers cultivation practices of selected commercially important medicinal plants with their processing details and uses. The book is very resourceful for medicinal plants growers, professionals, researchers, entrepreneurs and agriculture universities.

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69. VAI VIDANG

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70. VALERIAN

History and Geographical Distribution, Botany, Genetics, Soil and Climate, Propagation, Interculture and Weed Control, Fertilizers and Manures, Irrigation, Harvesting and Processing, Chemistry and Uses

71. VATSNABH

Regional Names, Distribution, Part Used, Cultivation & Propagation, Soil and Climate, Nursery Raising And Planting, Manure/ Fertilizer, Irrigation, Weeding, Harvesting/Post-harvesting, Chemical Constituents , Major Constituents, Other Constituents

Tags

How to Start Processing medicinal plants Industry in India, Medicinal plants Processing Industry in India, Most Profitable Medicinal plants Processing Business Ideas, Medicinal plants Processing & Medicinal plants Based Profitable Projects, Medicinal plants Processing Projects, Small Scale Medicinal plants Processing Projects, Starting a Medicinal plants Processing Business, How to Start a Medicinal plants Production Business, Medicinal plants Based Small Scale Industries Projects, new small scale ideas in Medicinal plants processing industry , 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 for Processing Medicinal plants, Startup ideas, Project for startups, Startup project plan, Business start-up, Business Plan for a Startup Business, Great Opportunity for Startup, Small Start-up Business Project, Start-up Business Plan for Processing Medicinal plants, Start Up India, Stand Up India, Modern small and cottage scale industries, Profitable small and cottage scale industries, Setting up and opening your Medicinal plants Processing Business, How to Start a Medicinal plants Processing Business? How to start a successful Medicinal



plants Processing business, Best small and cottage scale industries, Medicinal plants Processing Business, Profitable Small Scale Manufacturing, Therapeutic potential of medicinal plants, drug bioavailability enhancement, medicinal plants - priorities in indian medicines diverse studies and implications, recent developments of some natural products, production and, management of medical plants on farms, medicinal plants: present and future, classification, identification and naming of medicinal plants, propagation of medicinal plants, pests and pest management in medicinal plants , ajmalicine (raubasine): a medicinally important alkaloid from *Catharanthus roseus* (*Vinca rosea*), amla ,ashok , ashwagandha, bael , belladonna ,bhumi amalaki, brahmi , chandan, cinchona, corkwood tree , cultivation and utilization of *Duboisia* spp. in india, cultivation of *Ammi majus* linn, in india,cultivation of *Dioscorea composita* hemsl.: a potential source of diosgenin jammu, cultivation of rutin bearing eucalyptus species, chirata, datura, effect of light vs dark on seed germination of *Podophyllum* , *Hexandrum royle*, ergot of rye, foxglove, giloe , ginseng, gudmar, guggal, henbane-black, *Heracleum candicans* wall.- a potential source of xanthotoxin, indian aloe, ipecac, iridoids and secoiridoids of the genus *Swertia*, isabgol isolation and evaluation of valepotriates from indian , valerian, jatamansi, kalihari, kalmegh, kesar,

kokum, kuth, kutki, liquorice, makoy, mayapple, medicinal yam, mulethi, musali safaid, opium poppy, pashan bheda, pippali, production of colchicine from gloriosa superba seeds, quinghao, rasaut, safed musli, saprophytic production of ergot alkaloids, sarpagandha, senna, What is a medicinal herb?, What plants can be used as medicine?, Medicinal plants used in the traditional management of diabetes and its sequelae, Medicinal Plants in the Prevention and Treatment of Chronic Diseases, how to conserve medicinal plants, medicinal plants and their classification, In vitro manipulation and propagation of medicinal plants, Vegetative Propagation, Insect Pests of Medicinal and Aromatic Plants and their Management, vinca rosea medicinal uses, vinca rosea in diabetes, vinca rosea common name, Amla Benefits, Dose, Usage, Side Effects, why do seeds need light to germinate, how does light affect seed germination experiment.

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NIIR PROJECT CONSULTANCY SERVICES

AN ISO 9001:2008 COMPANY

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*
- *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*

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 & Hospitability 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*

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