

**Herbal Products, Aromatic Plant Cultivation,  
Processing, Herb, Medicinal Plants, Herbs  
Cultivation, Processing, Herb, Herbs Extracts,  
Aloe Vera Cultivation, Cultivation, Research  
Findings, Products, Formulations, Extraction &  
Processing, Processing, Herbs**

**[Herbal Cosmetics & Ayurvedic Medicines \(EOU\) \(3rd Revised Edition\)](#)**

**Author:** P. K. Chattopadhyay

**Format:** Paperback

**Book Code:** NI31

**Pages:** 476

**ISBN:** 9789381039274

**Price:** Rs. 1,475.00 US\$ 39.86

Herbal cosmetics have been into usage from time immemorial so has been the use of Ayurvedic medicines. Ayurveda which means the complete knowledge for long life has been very popular these days on account of its minimum or zero side effects with considerable power of curing. Similarly herbal cosmetics have been of great value because of the least harm they cause to the skin and the radiance they add to the skin. These days a number of beauty products that are using the herbal formulae and Ayurveda concepts have got lot of attention and have been witnessing a huge rise in demand not only nationally but on international arena. The charm of understanding herbal product is even you can use it by making certain combination at your home and get the benefits. These are economical and sure to provide alleviate the problems not only for skin but for long term health issues also. Herbal products combine the skills of specialists in chemistry, physics, biology, medicine and herbs. These are less likely to cause any damaging effect to health. Bath and beauty products use herbs for both their scents and therapeutic qualities. Herbal products are replacing the synthetics products because of its harsh nature. Herbal products are in huge demand in the developed world for health care for the reason that they are efficient, safe and have lesser side effects. The formulations based on herbs are safe and effective. To exploit the knowledge that has got the genesis in our country the book aims to provide you a comprehensive information on different types of herbal Cosmetics formulas. The contents of the book are: Analysis of Creams, Infra-Red Spectrophotometer In Cosmetic Analysis, Infra Red Spectrophotometer In Cosmetic Analysis, Analysis of Creams, Analysis of Shampoos, Lal Tooth Powder, Bath and Massage Oil, Sun Care/Skin Lightening Compound, Herbal Liver Tonic, Vicks Like Compound, hair oil, Eye Drops, Packaging Criteria for Cosmetics and Toiletries, Vicks Like Compound, Cosmetics for Elderly People, Cough Syrup, Colour in Cosmetics, Herbal Liver Tonic, Herbal Formulation, Medicinal Herbs as Cosmetics, Medicinal & Massage Oils, Herbal Cosmetic Cream for Dry Skin, Herbal Deodorant Roll On, Drug Standardization, Guide Lines on GMP, Premises and Equipment Requirements, Aloe Gel, Tablets and Capsule, Sandalwood Oil and Machinery Section. The Third Revised Edition of Herbal cosmetics and Ayurvedic medicines (EOU) also includes photographs of

machinery and equipments with addresses of their manufacturers. The book in general will be beneficial for entrepreneurs, industrialists, project consultants, libraries and in general all those looking for detail information.

## **Herbs Cultivation & Medicinal Uses (2nd Edition)**

**Author:** H. Panda  
**Format:** Paperback  
**Book Code:** NI32  
**Pages:** 634  
**ISBN:** 8186623469  
**Price:** Rs. 975.00    **US\$** 25.95

India is one of the leading Herbs producer and exporter in the world. Several meticulous researches were conducted and experimented with herbs. They arrived at more precise conclusions about the usefulness of diverse plants and herbs that are utilized in different fields like medicine. Ayurveda is the time honoured therapeutic form, prevailing in India since 2000 B.C. The Ayurveda healing is completely based on herbs, which have definite medicinal importance or significance. In the primeval times, the Indian sagacious held the view that Ayurveda herbs are the only resolution to treat numeral health related problems and diseases. Several meticulous researches were conducted and experimented with herbs to arrive at more precise conclusions about the usefulness of diverse plants and herbs that have medicinal value. Herbal products are replacing the synthetics products because of its harsh nature. Herbal products are in huge demand in the developed world for health care for the reason that they are efficient, safe and have lesser side effects. Growing herbs is easy to do, and people continue to turn their love for gardening into successful businesses growing and selling fresh cut herbs, herb plants, and other herb related products. Understanding the worth and heritage of excellence of Ayurveda in India the book makes an attempt to provide information on cultivation and medicinal use of herbs. The book contains the Cultivation of different herbs with photograph of a variety of herbal plants. The book also includes the habitat constituents, action and use in Ayurveda, sidha and Unani medicines. The book contains information on more than 100 herbs. The book contains chapters on cultivation of some of the very important herbs like: Pyrethrum Cultivation, Periwinkle Cultivation and Belladonna Cultivation and many more. The book also has the abbreviations for languages section at the end. There are many who have a genuine interest in understanding the medicinal benefits of herb. The book also has a section on some common home remedied that could be tried at home for quick relief of certain problems. The book can also be a good option for those looking for a guide to understand basics for starting cultivation of different herbs and taking it as a business opportunity. It is a ready manual and information database for traders, new entrepreneurs, manufacturers, project consultant and libraries etc.

# Modern Technology Of Perfumes, Flavours And Essential Oils (2nd Edition)

**Author:** NIIR Board

**Format:** Paperback

**Book Code:** NI33

**Pages:** 844

**ISBN:** 8186623434

**Price:** Rs. 975.00    **US\$** 100.00

Since primeval times Flavors and Fragrances has been an element of our life. We have been making it a part of life. By different means we all utilize perfumery and flavor materials, in our everyday life. Fragrances have a key part in religious ceremonies as it was considered to possess strengths to cure and protect from evil. We in our routine life starting from morning till night make different uses of products for personal care and cleanliness which have perfumes. Even consumables like confectionary contain some type of perfume or flavors. Most fragrance comes naturally from many plants. This smell is known as aroma which is a Latin word and those flora which have this aroma are known as aromatic plants. These aromas are extracted from some odoriferous material called essential oils. There is no dearth of aromatic plants in India. The country is famous for its rich endowment with aromatic plant. In fact the Vedic literature one can find many references of Ayurveda Gandhshastra the science of odor which deals with the cosmetics and fragrances. The famous aromatic plants in India with medicinal uses are mint, Tulsi etc. The book tries to give a brief note on the fragrance and essential oils and has been one of the bestseller. The book contains chapter on Standards on Essential Oils in India, Fragrance and Flavors Industry in India, Process Flavorings, The Perfumer's Raw Materials: Products of Natural Origin Essential Oils, Terpeneless Oils, The Perfumer's Raw Materials: Products of Synthetic Origin, Synthetic Ingredients of Food Flavorings, Beverage Flavorings and Their Applications, The Perfumer's Raw Materials: Products of Synthetic Origin, Citronella Oil and many more detailed chapters. This versatile book takes way out to most realistic formulae on diversified perfumery products, flavors, essential oils etc. Taken as a whole, the book furnishes complete formulae with processes along with the technical aspect which are enormously innovative and profoundly utilitarian for new entrepreneurs as well as will act as a source of motivation to the existing units in quality improvement and cost reduction. Flow diagrams for various methods of preparation are vivid representations of the process sequence, Sequence. The enclosure section in the book also has a directory on Sources of raw materials; plant and machinery.

# Herbal Cosmetics Handbook (3rd Revised Edition)

**Author:** H Panda

**Format:** Paperback

**Book Code:** NI35

**Pages:** 672

**ISBN:** 9788178330808

**Price: Rs. 0.00 US\$ 0.00**

Cosmetics have been in utilization for more than thousands years. More commonly known as make- up, it includes a host of skin products like foundation, lip colors etc. The international market for skincare and color cosmetics surpassed a sale of 53 billion dollars in 2002. The quantity and number of latest products brought to market both nationally and internationally continues to develop at a fast pace. Cosmetic chemists all the time are looking for attractive and striking material that enhances skin's appearance and healthiness. A huge collection of compounds is required to supply these products. The newest edition of the Cosmetics Toiletries and Fragrance Association (CTFA) Dictionary displays more than 10,000 raw materials and the list continues to increase with every year hundreds of new ingredients being added. The cosmetic chemistry has encompasses a vast area of study and one such is Herbal Cosmetics. Herbal cosmetics are the product of cosmetic chemistry, a science that combines the skills of specialists in chemistry, physics, biology, medicine and herbs. Since cosmetics are applied mostly to the skin, hair and nails, a brief description of the anatomy of these is desirable. Herbal cosmetic major users are girls and women who are very much peculiar about their skin type and requirement. Synthetic cosmetic being harsh and prone to more side- effects, herbal cosmetic is quickly replacing it and gaining a lot of popularity. As a result it has created an enormous market for itself both domestic as well as export market. Herbal Cosmetics Handbook has been featured as best seller. The book contains formulae, manufacturing processes of different herbal cosmetics like cosmetics for skin, nails, hair etc. It also covers analysis method of cosmetics, toxicity and test method. Some of the chapters of the book are: Classification of cosmetics Economic aspects, Cosmetic Emulsions, Cosmetics for the skin, Cosmetic Creams, Lubricating or Emollient Creams-Night Creams, Skin Protective and Hand Creams, Vanishing Creams-Foundation Creams, Liquid Creams, Cosmetic Lotions, Hand Lotions, Skin Toning Lotions-Skin Fresheners, Astringent Lotions, Hair Tonics and many more. The book will render useful purpose for new entrepreneurs, technologists, professionals, researchers and for those who want to extend their knowledge in the said field.

**Handbook on Herbal Medicines (Ayurveda Cream, Oil, Pain Balm, Tablet, Herbal Capsules, Churna, Syrup, Medicines with Composition, Rasa Preparations with Production Process, Machinery, Equipment Details and Factory Layout)2nd edition**

**Author:** H Panda

**Format:** Paperback

**Book Code:** NI36

**Pages:** 544

**ISBN:** 978-81-7833-091-4

**Price:** Rs. 1,675.00    **US\$** 41.00

Handbook on Herbal Medicines (Ayurveda Cream, Oil, Pain Balm, Tablet, Herbal Capsules, Churna, Syrup, Medicines with Composition, Rasa Preparations with Production Process, Machinery, Equipment Details and Factory Layout) About the Book Herbal medicines, sometimes referred to as herbal remedies or botanical medicine, have a long history of use spanning centuries as a natural approach to addressing various health conditions. These treatments are derived from plants and their components, such as leaves, flowers, stems, roots, and seeds. Herbal medicines leverage the therapeutic properties found in nature to promote general health and well-being. One of the key advantages of herbal medicines is their holistic approach to health. Unlike pharmaceutical drugs that often target specific symptoms, herbal remedies aim to treat the underlying cause of the ailment by addressing the body as a whole. This integrative approach focuses on supporting the body's innate healing mechanisms and restoring balance. The Herbal Medicine Market Size was valued at USD 148.5 Billion and is projected to grow from USD 165.13 Billion to USD 386.07 Billion in coming years, exhibiting a compound annual growth rate (CAGR) of 11.20%. The demand for herbal medicinal goods has grown as people become more aware of allopathic medications' side effects and the advantages of using them instead. The expanding population, coupled with an increase in the prevalence of chronic diseases, is another market driver impacting market growth. The market of herbal medicines will rise due to consumer preferences for natural and herbal goods. Natural goods like herbal medications and health supplements are popular among young people and those close to retirement. As a result, healthcare spending has changed as more senior citizens use herbal medications to maintain their active lifestyles. According to the World Health Organization (WHO), around 80% of the world's population consults traditional health practitioners for plant-based medicines, as they believe that products labeled as 'natural' are safe to consume and do not have any side effects on their health. The primary content of the book consists Herbal Plant Based Medicine, Herbal Plant-Made Pharmaceuticals, Potential Value-Added Products of Herbal Plants, Manufacturing of Ayurveda Cream, Oil, Pain Balm, Tablet, Herbal Capsules, Churna and Syrup. Rasa Preparations, Medicine for Gastrointestinal Tract, Impotency, Central

Nervous System, Musculoskeletal Disorders, Genitourinary Disorders, Respiratory System, Skin, Women Care, Infection & Infestation, General Disease, Endocrinology Medicines, Nutritional Medicines, Cardiovascular Medications, Packaging of Herbal Medicine, Factory Layouts, Machinery, Equipment Details & photographs with Suppliers Contact Details. This publication is a useful guide, thoroughly covering every important aspect of herbal medicine. It's set to be a go-to resource for professionals and budding entrepreneurs in this domain, providing an exhaustive insight into herbal medicine. The content is also immensely useful for consultants, entrepreneurs, start-ups, technocrats, research scholars, educational institutions, and established businesses. It presents a clear, step-by-step guide, leading from the foundational concepts to the stages of acquiring equipment.

## **Modern Technology Of Cosmetics**

**Author:** NIIR Board

**Format:** Paperback

**Book Code:** NI37

**Pages:** 659

**ISBN:** 8178330814

**Price: Rs. 1,100.00 US\$ 29.73**

Herbal cosmetics have been into usage from time immemorial. Recent days also cosmetics have been very popular especially among fashion conscious people. Despite the fact that modern make-up has been used mostly by women, steadily rising number of males are also using cosmetics usually associated to women to improve their own facial features. Thus they have broken the age old belief that cosmetics are used by female only and also have proved that male crowd is also conscious about their skin needs. Cosmetics include a whole array of products like lipsticks, shampoo, mascara, foundation, eye liner and so on. They are more popular with young crowds and thus have a huge demand. Herbal cosmetics have been of great value because of the least harm they cause to the skin and the radiance they add to the skin. These days a number of beauty products that are using the herbal formulae and Ayurveda concepts have got lot of attention and have been witnessing a huge rise in demand not only nationally but on international arena. The charm of understanding herbal product is even you can use it by making certain combination at your home and get the benefits. The cosmetic industry is in growing stage not only domestically but also globally. Herbal products are replacing the synthetics products because of its harsh nature. Herbal products are in huge demand in the developed world for health care for the reason that they are efficient, safe and have lesser side effects. The formulations based on herbs are safe and effective. The manufacture of cosmetics is not a new phenomenon and has been in use from several decades ago. The book is on the modern technology used in cosmetic industry. The attempt made in this book is to advance the older methods and provide the latest formulae and techniques to manufacture to enhance their knowledge. The content of the book include chapters on Hair Structure and Chemistry Structure of Hair Keratin, Sunburn Preparations, Shampoos, Detergents Thickeners and foam Stabilisers, Perfumes, Preservatives, pacifiers and Pearlisers, Conditioning Agents, Colours and Colour Fading Other Additives, Conditioners, Cationic Surfactants, Cationic Polymers and Other Active Ingredients, Bodying Agents, etc. The chapters are dealt in great detail for the proper understanding and concept development. The clear

understanding will serve beneficial purpose, that's why the book is highly recommended for entrepreneurs, industrialists, research centres, technologist and libraries.

# **Handbook on Ayurvedic Medicines with Formulae, Processes & Their Uses (2nd Revised Edition)**

**Author:** H. Panda

**Format:** Paperback

**Book Code:** NI47

**Pages:** 576

**ISBN:** 9789381039250

**Price:** Rs. 1,475.00 US\$ 39.86

Ayurvedic medicine (also called Ayurveda) is one of the world's oldest medical systems. It originated in India and has evolved there over thousands of years. It is a holistic healing science. Ayurvedic practice involves the use of medications that typically contain herbs, metals, minerals, or other materials. Now-a-days people are attracted more towards Ayurvedic medicines as the allopathic medicines are costlier and have side effects. There is more and more scientific research being conducted in our country for treatment of various diseases by Ayurvedic and herbal therapy. Research on medicinal and cosmetic uses of herbs is contributing to the growth of herbal industry. A large number of ailments have Ayurvedic treatment much superior to the other system of medicines and this has been recognized world over. Medicine has become an increasingly accepted alternative medical treatment in America during the last two decades. Up to 80% of people in India use either Ayurveda or other traditional medicines. It is believed that building a healthy metabolic system, attaining good digestion and proper excretion leads to vitality. India is said to have advantage of well recorded and well practiced knowledge of traditional herbal medicines. Herbal products are in huge demand in the developed world for health care, for the reason that they are efficient, safe and have lesser side effects. Efforts have been made on this book to enable readers to explore details regarding medicinal plants and their processing, learn about the unique composition of Rooh Afza, a clinical study of Chyavanaprash produced by Ayurveda rasashala, a clinical assessment of effect of triphala in lipoma, formulae and processes of different types of Ayurvedic Medicines like churan, capsules, syrup, sharbat, pastes etc that are used in various ailments. It also highlights preparation and uses of every product accompanied with their formulations which offers relief from a variety of conditions, such as cold and flu symptoms, headaches, toothaches, sore throats, high cholesterol, vision problems, anxiety, depression etc. Special content on machinery equipment photographs along with supplier details has also been included. We hope that this book will meet every individual need who has thrust to explore and enter into the field of medicinal herbs processing.



**Author:** H. Panda

**Format:** Paperback

**Book Code:** NI48

**Pages:** 744

**ISBN:** 818662371X

**Price:** Rs. 975.00 US\$ 100.00

Essential oils are more widely used in modern products than one might expect usually extracted through distillation, they are used to fragrance bathing products, incense, perfumes and cosmetics, as well as in some types of household cleaner. In terms of alternative medicine, essential oils are most frequently used today in aromatherapy. Some essential oils are well known for their efficiency in treating minor ailments. There are huge numbers of useful plant extracts which can be used or aromatherapy. Essential oils can have physical and mental benefits. When essential oils make contact with the skin, they go deep beneath the pores and into the cell tissues where it is thought that they improve circulation and immunity. Other suggested benefits include relief from pain including headaches; antibacterial and antiseptic properties for treatment of minor cuts and wounds; relief from anxiety and depression and improving overall emotional state of a person. About 98% of the essential oils produced worldwide are produced for the cosmetic/perfume or food flavouring industries. In these industries, the therapeutic effect of the oil is not a consideration; and so, the oils are produced in a manner is that is totally unsuited for oils to be uses in aromatherapy. The total share in world export of essential oils and perfumery material it is only 0.4% thus, future hold great promise for India in the fast charging global economy as for as production and trade of natural raw material is concerned. Some of the fundamentals of the book are development of essential oil crops in India, oil of lavender, oil of lavadin, oil of rosemary, kuromoji oil, laurel leaf oil, sassafras oil Brazilian, nutmeg oil and mace oil (myristica oil), oil of michelia fallay, oil of lysimachia foenum, oil of chlorophyll carotene paste needles and twigs, flavonoids of liquidambar, turpentine oil, essential oil in the kitchen, essential oil in therapeutics, analysis of essential oils, annatto oil, oil of piper bettle, senecio quinquelobus, milletia ovalifolia, oil of vitis vinifera, dill seed and herb, oil siyah zeera (carum bulbocastanum), oil of eugenia jambolana, rosha oil, Indian petitgrain oils, Indian mandarin oils, extraction of citrus oil, etc. With the development of science and technology, essential oils are becoming popular due to its uses in the manufacturing of different products. This versatile book takes recourse to most pragmatic formulae on diversified essential oils. Overall the book contains formulae, processes which are immensely

innovative and profoundly utilitarian for new entrepreneurs as well as motivate the existing units in quality improvement and cost reduction.

# **Hand Book on Neem & Allied Products**

**Author:** NIIR Board

**Format:** Paperback

**Book Code:** NI49

**Pages:** 478

**ISBN:** 8178330415

**Price:** Rs. 975.00 US\$ 25.95

Nature has blessed man with a number of wonders. Of all, plants are found to be its best boon. Among them, neem is distinguished by their astonishing versatility. Neem is such a fascinating tree that no other tree probably has provided wide range of benefits to mankind. Neem tree and its products have been reputed since long for some physiological activity and have been used quite extensively as a household remedy, since time immemorial, for the treatment of some of the common ailments. The Neem tree, which is also known as Margosa or Indian lilac is grown extensively in Asian and African countries. The neem is very useful tree due to its medicinal and insecticidal properties. Neem oil is the major product of neem seed industry. The chief limitation of the oil is its odour due to the presence of odouriferous substances and other non saponifiable components. Amongst the non edible oilseeds the potential availability of neem is by far the largest because of its very extensive growth throughout the country and fairly good yield of oils from the seeds. Neem seed cake is the major by product of neem seed oil. Various parts of the neem tree have been used as traditional Ayurvedic medicine in India. Almost every product of this invaluable tree has been largely employed for medical purposes. Neem works as blood purifier. Consuming raw neem leaves or neem leaf powder helps in eradicating toxins from the blood. This is one of the greatest benefits of neem tree. Azadirachtin in the neem products have been found to act as repellents, antifeedants, affect food consumption and utilization and interfere with the growth regulation and ovarian development in insects. Neem manufacturing products are in high demand and several manufacturing companies are readily in business trying to satisfy their natural product consuming and environment sensitive market. Along with a good natural resource management program, Neem can be an income generator and a sustainable medicinal alternative in developing countries. Some of the fundamentals of the book are technology for production of insecticides of plant origin at rural level, neem seed cake as a source of pests control chemicals, neem oil as possible biorational insecticide, chemistry of neem (*azadirachta indica*), a sustainable source of natural pesticides, machineries for neem processing, engineering properties of neem nut, neem and transfer of

technology, processing of neem fruit and seed, processing of neem oil and its utilization, uses of neem is indigenous system of medicine, cold processing of neem seed, products from neem, development of a neem formulation and its evaluation for control of crop pests, evaluation of nematicidal potential in neem, etc. The book covers cultivation of neem and processing of its products. It will be of immense value to all concerned with manufacturing of neem products; consultants Institutions or those who want to diversify in to production of neem based products.

## **Handbook on Herbal Products (Medicines, Cosmetics, Toiletries, Perfumes) 2 Vols.**

**Author:** NIIR Board

**Format:** Paperback

**Book Code:** NI51

**Pages:** 1003

**ISBN:** 8186623485

**Price:** Rs. 1,500.00    **US\$** 39.95

Herbal products combine the skills of specialists in chemistry, physics, biology, medicine and herbs. These are less likely to cause any damaging effect to health. These days a number of products that are using the herbal formulae have got lot of attention and have been witnessing a huge rise in demand not only nationally but on international arena. Bath and beauty products use herbs for both their scents and therapeutic qualities. Herbal products are replacing the synthetics products because of its harsh nature. Herbal products are in huge demand in the developed world for health care for the reason that they are efficient, safe and have lesser side effects. The formulations based on herbs are safe and effective. Both the volumes covers processes, formulations, analysis methods with the addresses of raw material and machinery suppliers, project profiles, list of manufacturers, exporters and overseas importers of various herbal medicines, cosmetics, perfumes and toiletries. The book also contains addresses of different Ayurvedic & Unani medicines research institutes. The major contents of the book (both volumes) are: herbal cosmetics, perfumes, analysis of cosmetics, toxicity and test method, infrared spectra of some naturally occurring sesquiterpene hydrocarbons, ayurvedic medicines, analysis of ayurvedic medicines, ayurved siddha unani companies and their products, machinery, directory of perfumes and flavours, manufacturers of standardized herbal extracts. The book is very useful for new entrepreneurs, manufacturers of herbal products who can easily extract the relevant formulation and process from the book.

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## **Herbal Soaps & Detergents Handbook**

**Author:** H. Panda

**Format:** Paperback

**Book Code:** NI53

**Pages:** 536

**ISBN:** 9789381039007

**Price:** Rs. 1,275.00    **US\$** 125.00

The use of herbs for medicinal and cosmetic purpose goes back to the ancient times. The emphasis at the present hour has been laid on the spectacular growth of the herbal and ayurvedic products. The demand in past is found to have increased with increase in number of middle class population. People are now a days very much aware of the ingredients in cosmetic products, the benefits of plant products and the harmful effects of chemical ingredients. The presence of artificial and chemical ingredients in cosmetic products has made people to rethink about suitable alternatives to suit their personnel care regime. The herbal products have finally made their appearance in packaged form in the domestic markets, as cosmetics and personal care preparation such as soaps, shampoos, detergent bars, liquid soaps, liquid detergents, etc. These products play a vital role in our sense of well being and quality of life. The herbal soaps and detergents directly influence our emotions and can trigger moods. These creations not only protect the skin from harmful sun radiations but also leave behind a pleasant fragrance. Due to the increasing awareness and importance of cleanliness and healthiness, the use of herbal products is also increasing. Future demand for herbal products depends upon the per capita rate of consumption and segment of population using these products. This handbook provides detailed information on the manufacturing process of herbal soaps and detergents. This book contains numerous formulae, manufacturing process of different type of soaps and detergents which are used in day to day life. The book is an unique compilation and will be very helpful to all its readers, new entrepreneurs, professionals, beauty care product manufacturers, existing units, technical institutions, etc.

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## [Herbs Cultivation & Their Utilization](#)

**Author:** NIIR Board

**Format:** Paperback

**Book Code:** NI55

**Pages:** 522

**ISBN:** 8178330644

**Price:** Rs. 800.00 US\$ 21.62

India is one of the leading Herbs producer and exporter in the world. Several meticulous researches were conducted and experimented with herbs. They arrived at more precise conclusions about the usefulness of diverse plants and herbs that are utilized in different fields like medicine, cosmetics, perfumes and so on. The Ayurveda healing is completely based on herbs, which have definite medicinal importance or significance. In the primeval times, the Indian sagacious held the view that ayurveda herbs are the only resolution to treat numeral health related problems and diseases. Herbal products are replacing the synthetics products because of its harsh nature. Herbal products are in huge demand in the developed world for health care for the reason that they are efficient, safe and have lesser side effects. Growing herbs is easy to do, and people continue to turn their love for gardening into successful businesses growing and selling fresh cut herbs, herb plants, and other herb related products. The book makes an attempt to provide information on cultivation and utilization of herbs. The book also contains the described process of the cultivation of medicinal herbs, spices etc with photograph and diagrams. This book also describes about the role of perfumery, analysis of essential oils and flavors, recent development of some natural products and more. This book covers the comprehensive information on herbs cultivation & their utilization. We hope that this book will be very helpful for new Entrepreneurs, Herb Growers, professionals & research Institutions.

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## **Medicinal Plants Cultivation & Their Uses**

**Author:** H. Panda

**Format:** Paperback

**Book Code:** NI56

**Pages:** 598

**ISBN:** 8178330962

**Price:** Rs. 975.00 US\$ 25.95

The medicinal plants have been used since ancient times for the treatment of human ailments. Over three quarters of the world population relies mainly on plants and plant extracts for health care. The herbal medicines today symbolize safety in contrast to the synthetics that are regarded as unsafe to human and environment. In the primeval times, the Indian sagacious held the view that herbal medicines are the only resolution to treat numeral health related problems and diseases. Although herbs had been prized for their medicinal, flavoring 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. Understanding the worth and heritage of excellence of medicinal plants the book makes an attempt to provide information on cultivation of medicinal plants and their different uses. This book includes the chemical composition of plants, plant protection, essential oils extracted from plants, cultivation of more than 100 medicinal plants, list of rare medicinal plants and their various uses. The book covers different parameters of medicinal plants cultivation and various ways of their uses. It covers medicinal plants containing alkaloids, steroids flavonoids, glycosides, terpenoids, additives and other active metabolites. We hope that this book will be useful not only for technologists, professionals, but also for farmers, traders, exporters and importers of Medicinal Plants.

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**[The Complete Technology Book of Essential Oils \(Aromatic Chemicals\)Reprint-2011](#)**

**Author:** NIIR Board

**Format:** Paperback

**Book Code:** NI58

**Pages:** 640

**ISBN:** 9788178330662

**Price:** Rs. 1,275.00    **US\$** 125.00

Essential oils are also known as volatile oils, ethereal oils or aetherolea, or simply as the oil of the plant from which they were extracted. Essential oils are generally used in perfumes, cosmetics, soaps and other products, for flavoring food and drink, and for adding scents to incense and household cleaning products. Various essential oils have been used medicinally at different periods in history. Medical applications proposed by those who sell medicinal oils range from skin treatments to remedies for cancer, and often are based solely on historical accounts of use of essential oils for these purposes. Interest in essential oils has revived in recent decades with the popularity of aromatherapy, a branch of alternative medicine that claims that essential oils and other aromatic compounds have curative effects. Oils are volatilized or diluted in carrier oil and used in massage, diffused in the air by a nebulizer, heated over a candle flame, or burned as incense. This book describes about the physicochemical properties, chemical composition, distillation, yield, quality of essential oils, process of extraction of essential oils, manufacture of essential oils, products derived from essential oils and so on. The book in your hands contains formulae, processes, and test parameters of different types of essential oils derived from different natural sources. This is very helpful book for new entrepreneurs, professionals, institutions and for those who are already engaged in this field.

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## **[The Complete Technology Book on Herbal Perfumes and Cosmetics \(2nd Revised Edition\)](#)**

**Author:** Dr. H. Panda

**Format:** Paperback

**Book Code:** NI59

**Pages:** 688

**ISBN:** 9789381039069

**Price:** Rs. 1,275.00    **US\$** 125.00

Herbal perfumes and cosmetics have been into usage from time immemorial and are made using natural herbs and ingredients that are healthier and beneficial for the skin. These are less likely to cause any damaging effect and the radiance they add to the skin. These days a number of beauty products that are using the herbal formulae have got lot of attention and have been witnessing a huge rise in demand not only nationally but on international arena. Bath and beauty products use herbs for both their scents and therapeutic qualities. Herbal products are replacing the synthetics products because of its harsh nature. To exploit the knowledge that has got the genesis in our country the book aims to provide recourse of pragmatic formulae of diversified herbal perfumes and cosmetics. Over all, the book contains formulae, processes, technicalities which are immensely innovative and profoundly utilitarian for new entrepreneur as well as motivate the existing units in quality improvement and cost reduction. The major contents of the book are creation of herbal perfumes, blending of fragrances, principle of manufacture, infrared spectra of pure herbal products, application of herbal products in body care, facial care, hair care, list of raw materials used for the creation of perfumery, manufacturing procedures for the preparation of toilet products, formulas of different types of perfumery, list of perfumes and cosmetics, photographs and details of machineries, toiletries manufactures and machinery suppliers in directory section. The book is highly recommended to new entrepreneurs, existing units who wants to diversify from synthetic to herbal products, research centers, professionals and libraries.

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## **Handbook on Herbs Cultivation and Processing**

**Author:** NIIR Board

**Format:** Paperback

**Book Code:** NI87

**Pages:** 422

**ISBN:** 8178330741

**Price:** Rs. 875.00 US\$ 23.65

India is one of the leading herbs producer and exporter in the world. Several meticulous researches were conducted and experimented with herbs. They arrived at more precise conclusions about the usefulness of diverse plants and herbs that are utilized in different fields like medicine, cosmetics, perfumes and so on. The Ayurveda healing is completely based on herbs, which have definite medicinal importance or significance. In the primeval times, the Indian sagacious held the view that Ayurveda herbs are the only resolution to treat numeral health related problems and diseases. Herbal products are replacing the synthetics products because of its harsh nature. Herbal products are in huge demand in the developed world for health care for the reason that they are efficient, safe and have lesser side effects. Growing herbs is easy to do, and people continue to turn their love for gardening into successful businesses growing and selling fresh cut herbs, herb plants, and other herb related products. Producing herbs for the medicinal market has received a lot of interest from potential commercial growers, but it is still a new and uncertain market. Medicinal herb products may include all plant materials such as foliage, flowers, seeds, fruit and roots. They may be used fresh or in the form of their extracts or chemical compounds isolated from them to produce drugs for human or veterinary medicine. Production of medicinal herbs is limited by the demand for them in international trade. According to the research there are over 20,000 common medicinal plants used in different parts of the world. Over 100 herbs are used on a regular basis. The decision to cultivate medicinal herbs should only be made in response to demand for particular herbs. The market is very competitive and could easily be oversupplied. This book majorly deals with general characters and composition of herbs, official parts and names of herbs, cultivation of herbs and its medicinal uses etc. The major contents of the book are Acacia, Aconitum Napellus, Acrous Calamus, Adhatoda Zeylanica, Althaea officinalis, Linn, Amaranthus, Linn, Amorphophallus cam Panulates, Aristolochia Indica, Atropa Belladonna, Brassica, Calotropis, Procera (Ait.), Capsicum Annuum, Linn etc. The book covers systematic account of most plants used in medicines. This is an indispensable book which provides cultivation techniques of various herbs with their processing. The text of each plant is divided in two

portions: the first devoted to the description of the species, its localities and other purely botanical matter and the second to the general character, composition, properties which are employed in medicines or otherwise. The book is very useful for new entrepreneurs, ayurvedic institutes, libraries and consultants.

## Herbal Foods and its Medicinal Values

**Author:** H. Panda

**Format:** Paperback

**Book Code:** NI96

**Pages:** 768

**ISBN:** 8186623744

**Price:** Rs. 1,275.00    **US\$** 33.95

Food has been a basic part of our existence. Through the centuries we have acquired a wealth of information about the use of food as a part of our community, social, national and religious life. It has been used as an expression of love, friendship and social acceptance without knowing the medicinal values of such food. India is one of the leading herbal food producer and exporter in the world. Traditional use of herbal medicines is recognized as a way to learn about potential future medicines. Several meticulous researches were conducted and experimented with herbal food. They arrived at more precise conclusions about the usefulness of diverse plants and herbs that are utilized in field like medicine. Now a day people are very much aware of the ingredients in synthetic drugs, the benefits of herbal products and harmful effects of chemical ingredients. Herbal medicines are in huge demand in the developed world for health care for the reason that they are efficient, safe and have lesser side effects. The formulations based on herbs are safe and effective. Herbal 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. The decision to cultivate medicinal herbs should only be made in response to demand for particular herbs. The market is very competitive and could easily be oversupplied. The major contents of the book are carbohydrates, chemistry of carbohydrates daily requirement of carbohydrates, proteins, chemistry of proteins, some Indian food preparations rich in proteins, dynamic action of vitamin A, absorption and excretion of vitamin A, medicinal uses of ripe mango, mango in the treatment of night blindness etc. This book for the first time reveals the exact medicinal characteristics and how it works and cures the different disease to make mankind healthy. This book is very useful for scientists, doctors, scholars as well as entrepreneurs.

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## Handbook on Herbal Drugs and its Plant Sources

**Author:** H. Panda

**Format:** Paperback

**Book Code:** NI97

**Pages:** 596

**ISBN:** 8186623736

**Price:** Rs. 1,000.00    **US\$** 26.95

India is a large repository of herbal drugs and become a big centre and fountain in the field of herbal therapy and beautification. Treatment through the herbs is very popular in the ancient time in Indian subcontinent and now approaching to new boundaries. Plants had been used for medicinal purposes long before recorded history. It is becoming more main stream as improvements in analysis and quality control along with advances in clinical research show the value of herbal medicine in the treating and preventing disease. Herbal medicine is used to treat many conditions, such as asthma, eczema, migraine, etc. Medicinal plants have been used as a major source of therapeutic agents by human being for thousands of years. Ancient men obtained more than 90% of his medicaments from higher plants. However, the importance of plants as a source of drugs decreased to certain extent. In spite of the fact that synthetic drugs and antibiotics have improved the life expectancy of man, plants still constitute as one of the major sources of raw materials for drugs all over the world. Now a day people are very much aware of the ingredients in synthetic drugs, the benefits of plant products and harmful effects of chemical ingredients. Herbal drugs are in huge demand in the developed world for health care for the reason that they are efficient, safe and have lesser side effects. The formulations based on herbs are safe and effective. The major content of this book are an ancient drug for filariasis, tribal remedies against snake bite and scorpion stings in Rajasthan, traditional herbal contraceptives from North-West Uttar Pradesh, cervical spondylosis through herbal drugs, medicinal uses of cucurbits, traditional Chinese herbal drugs in the light of scientific studies, significant medical plant, medicinal and poisonous plants in history. This particular book clearly describes chemical analysis, the original source drugs, biological activity, herbal preparation of medicine, and many more. This book also contains description of more than 200 medicinal plants which is beneficial to scientists and scholars.

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## **Handbook on Unani Medicines with Formulae, Processes, Uses and Analysis**

**Author:** NIIR Board of Consultants and Engineers

**Format:** Paperback

**Book Code:** NI103

**Pages:** 678

**ISBN:** 8178330423

**Price:** Rs. 0.00 US\$ 0.00

As an alternative form of medicine, Unani has found favour in India. These Unani practitioners can practice as qualified doctors in India, as the government approve their practice. Unani medicine is very close to Ayurveda. Both are based on theory of the presence of the elements (in Unani, they are considered to be fire, water, earth and air) in the human body. According to followers of Unani medicine, these elements are present in different fluids and their balance leads to health and their imbalance leads to illness. Government have exclusive department of Indian system of medicine inclusive of Unani under Health ministry and several states have department and institutions to ensure the proper regulation and development of Unani medicine in India. Herb gardens, nursery of medicinal plants, experimental and field scale cultivation are the major initiatives taken for the improvement of medicine. Skin disease, liver disorder, sexual disturbances, pulmonary, sinus and communicable diseases are the major effective treatment achieved areas for Unani. Tremendous progress has been registered in the development of modern medicine. Yet, medicinal plants continue to be an important source of drugs throughout the world. Unani medicine is one of them, plant as a source of drugs of much more important for the developing countries. This book majorly deals with the, habitat, description, procedure and time of collection, chemical constituents, method of processing, therapeutic uses of medicinal plants. This book also constitutes the list of institutes of Unani medicines, list of college of Unani medicines in India, world importers of natural medicine. This publication is one of its kinds which clearly indicate the usefulness of Unani medicine, shows how the plant secrets, preserve the natural secrets/ hormones/ juices which ultimately uses in Unani system of medicine. This book is most informative and useful for students, Research scholars and scientist. We hope this book will achieve the long standing demand of herbal chemists.

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## **Aromatic Plants Cultivation, Processing and Uses**

**Author:** H. Panda

**Format:** Paperback

**Book Code:** NI120

**Pages:** 504

**ISBN:** 8178330571

**Price:** Rs. 975.00 US\$ 25.95

Aromatic plants have essential or aromatic oils naturally occurring in them. They help heal mental ailments and other diseases. India is endowed with a rich wealth of medicinal plants. Aromatic (Aroma Producing) plants are those plants which produce a certain type of aroma. Their aroma is due to the presence of some kind of essential oil with chemical constituents that contain at least one benzene ring in their chemical configuration. The chemical nature of these aromatic substances may be due to a variety of complex chemical compounds. These plants have made a good contribution to the development of ancient Indian material medica. In recent years, there has been a tremendous growth of interest in plant based drugs, pharmaceuticals, perfumery products, cosmetics and aroma compounds used in food flavors and fragrances and natural colors in the world. There is a definite trend to adopt plant based products due to the cumulative derogatory effects resulting from the use of antibiotic and synthetics and except for a few cultivated crops, the availability of plant based material is mainly from the natural sources like forests and wastelands. There is a need to introduce these crops into the cropping system of the country, which, besides meeting the demands of the industry, will also help to maintain the standards on quality, potency and chemical composition. During the past decade, demand for aromatic plants and its products has attracted the worldwide interest, India being the treasure house of biodiversity, accounts for thousands of species which are used in herbal drugs. 90% of herbal industry requirement of raw material is taken out from the forests. Some fundamentals of this book are botanical description of the plant, genetic improvement, harvesting, intercropping, transplantation, irrigation and weeding, vanilla cultivation in India, commercial cultivation of vanilla, distillation of herbage for essential oil, effect of growth hormones, jasmine crop improvement & agrotechniques, efforts for new variety of *Jasminum auriculatum*, essential oils of agarwood, *Cinnamomum tamala* leaves, *Eucalyptus citriodora* and *Caultheria fragrantissima*, past and future of sandal wood oil industry, by product development from turmeric and ginger rhizomes, isolation of essential oils and its flavour profile etc. This book contains most of the important aspects related to aromatic plants. It is being published for those who are interested in growing, processing and trading of aromatic

plants. Tags Aromatic plants cultivation India, Cultivation of aromatic plants, Aromatic plants farming, Cultivation of aromatic crops, List of aromatic plants in India, Names of aromatic plants, Aromatic plants, Processing of Aromatic Plants, Extraction of essential oils from aromatic plants, Extraction of essential oils by steam distillation, Essential oil extraction methods, How Are Essential Oils Extracted?, Essential oils, Extraction of Volatile Oil from Aromatic Plants, Steam distillation procedure, How to extract plant oils by distillation?, How to extract oil from plants?, List of aromatic plants and their uses, List of Important Aromatic Plants, Multiple Uses of Aromatic Plants, Commercial cultivation of aromatic plants

**Compendium of Medicinal Plants**

**Author:** NIIR Board of Consultants & Engineers

**Format:** Paperback

**Book Code:** NI121

**Pages:** 444

**ISBN:** 8186623809

**Price:** Rs. 875.00    **US\$** 23.65

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 are resources of new drugs. 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's life. Besides, the usage of medical plants has been increasing as an important role that can support the economic system. The medical plants for health are used as herbal treatments and therapies that can be new habits for culture. 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. The decision to cultivate medicinal herbs should only be made in response to demand for particular herbs. The market is very competitive and could easily be oversupplied. Some fundamentals of the book are bryonopsis laciniosa, cajanus indicus, spreng. and c.bichlorandc.flalvus, cassiaauriculata, linn.cassia angustifolia vahl, dalbergia sissoo, delonixelata, dolichandrone falcata, seem., drosera pellata, eclipta alba hassk, elettaria cardamomum maton, emblica officinalis, embelia ribes burm, enicostema littorale,blume., erythrina indica, grewia tiliaefolia, vahl., gymnema sylvestre, R.BR., or asclepias geminata, haematoxylon campechianum, hedychium spicatum ham. Ex. Smith, hederia helix helicteres isora ,linn., helianthus annuus, linn.91., hellebores niger, linn.92, hepatica nobilis 93., herniaria ,inulahelenium107., ipomoea digitataipomoea turpethum109. Iris germanica110. jatrophia gossypifolia, juglans regia, kaempferia galanga etc. The book contains systematic account of the most important plants used in medicines. Each chapter covers botanical

description, parts used, Ayurvedic properties, clinical uses, constituents with the figure of the plant. This book will be very useful for those working on medicinal plants, natural products, entrepreneurs, libraries, consultant, research scholars etc.

# **Aloe Vera Handbook Cultivation, Research Finding, Products, Formulations, Extraction & Processing**

**Author:** H. Panda

**Format:** Paperback

**Book Code:** NI122

**Pages:** 496

**ISBN:** 8178330245

**Price: Rs. 1,275.00 US\$ 33.95**

Aloe Vera is a semi tropical plant. It is one of the oldest known medicinal plants gifted by nature, Aloe Vera often called Miracle plant known by many names. It contains more than two hundred tonic ingredients including essential amino acids, enzymes, glucose and more. Also contains the most essential components required by the human body. It is grown wild in hedge rows in dry soil conditions and almost all parts of India. It can be grown even under constant drought conditions.

Commercial cultivation and utilization of this plant with the application of technology can be of great value. There are various benefits of this plant; it is used to support the natural healing of skin that has been damaged. A common usage is to soothe sunburned skin. Aloe Vera can also be made into juices, gels, powders and is often added to products. For example it can be found in cosmetics, shampoos, lotions and many other common household Aloe Vera products. The many benefits of Aloe Vera are not fully researched as of yet. Processing of Aloe Vera gel derived from the leaf pulp of the plant, has become a big industry worldwide due to the application in the food industry. It has been utilized as a resource of functional food, especially for the preparation of health drinks which contain Aloe Vera gel and which have no laxative effects. Given the exponentially growing demand for it in the international market, it presents the finest commercial opportunity among the various medicinal plants. Also, India is among the few countries gifted with the unique geographical features essential for cultivation of Aloe Vera and other high potential medicinal plants. Some fundamentals of this book are chemical investigations of different parts of the leaf, agro technique: Aloe Vera, economics of cultivation per hectare, aloe (Aloe Vera) investment opportunity, specialty raw material market for cosmetics/toiletries, strategy for capacity creation and marketing, influence of Aloe Vera on the glycol amino glycans in the matrix of healing dermal wounds in rats, effects of low molecular constituents from Aloe Vera gel on oxidative metabolism and bactericidal activities of human neutrophils, Aloe Vera & AIDS research, anti diabetic activity of aloes: preliminary, aloe reduction in ulcers, erosions & hemorrhages, extraction process, processing steps, extraction process of aloe gel and powder etc. This book highlights such technical details to guide and encourage new entrepreneurs. It is very useful book for consultants, farmers, students of Agricultural

universities, libraries etc.

## **Handbook on Medicinal Herbs with Uses**

**Author:** H. Panda

**Format:** Paperback

**Book Code:** NI125

**Pages:** 550

**ISBN:** 817833058x

**Price:** Rs. 1,075.00    **US\$** 28.95

Medicinal herbs are the local heritage with global importance. World is endowed with a rich wealth of medicinal herbs. The Variety and sheet number of plants with therapeutic properties is quite astonishing. Medicinal herbs have curative properties due to presence of various complex chemical substance of different composition, which are found as secondary plant metabolites in one or more parts of these plants. These plant metabolites, according to their composition, are grouped as alkaloids, glycosides, corticosteroids, essential oils etc. During the past decade, a dramatic increase in exports of medicinal herbs attests to worldwide interest in these products as well as in traditional health systems. The pharmaceutical industries have made massive investment on pharmacological, clinical and chemical researches all over the world in past five decades. Efforts have been made to discover still more potent plant drugs. The benefits of these efforts would reach to the masses in future in farmers initiate commercial cultivation of medicinal herbs. In fact, agricultural studies on medicinal herbs, by its very nature, demand an equally large investment and higher priority. India, in particular, has a big scope for the development of pharmaceutical and physiochemical industry. The medical plants for health are used as herbal treatments and therapies that can be new habits for culture. 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. This book illustrates the cultivation, utilization of *Abelmoschus Moschatus*, *Abroma Augusta*, *Abrus Precatorius*, *Abutilon Indicum*, *Acacia Arabica*, *Acacia Catechu*, *Acacia Farnesiana*, *Acanthus Illicifolius*, *Achillea Millefolium*, *Achyranthes Aspera*, *Aconitum Napellus*, *Aconitum Heterophyllum*, *Acorus Calamus*, *Adansonia Degitata*, *Adina Cordifolia* *Adhatoda Vasika*, *Adonis Vernalis*, *Aegle Marmels*, *Aerua Lanata*, *Aesculus Hippocastanum*, *Aethusa Cynapium* etc. The book contains systematic account of the most important plants used in medicines. Each chapter covers botanical description, parts used, Ayurvedic properties, clinical uses, constituents with the figure of the plant. This book will be very useful for those working on medicinal plants, natural products, entrepreneurs, libraries, consultant, research scholars etc.

# **The Complete Technology Book on Herbal Beauty Products with Formulations and Processes**

**Author:** H. Panda

**Format:** Paperback

**Book Code:** NI131

**Pages:** 550

**ISBN:** 8178330210

**Price:** Rs. 0.00 US\$ 0.00

Herbs can be used for beauty in original or compound form. They act against the internal impurities and external toxins of our body, add additional nutrients to it, make it glow and shine. Herbs provide natural, flawless treatment to our skin; nourish it from within, leading to its internal development. It combines the skills of specialists in chemistry, physics, biology, medicine and herbs. These are less likely to cause any damaging effect to health. These days a number of products that are using the herbal formulae have got lot of attention and have been witnessing a huge rise in demand not only nationally but on international arena. Bath and beauty products use herbs for both their scents and therapeutic qualities. Herbal products are replacing the synthetics products because of its harsh nature. Herbal products are in huge demand in the developed world for health care for the reason that they are efficient, safe and have lesser side effects. The formulations based on herbs are safe and effective. Drugs obtained from plant origin occupy important position in different pharmacopoeias. Products from natural sources are an integral part of human health care system because of major concern about synthetic drugs and their side effects and toxicity. The demand of herbal cosmetic products is high soaring in the world today. India has always been a rich producer of herbal products. The natural resources in the country are in abundance and have been a major source for the booming industry of herbal and cosmetic products. Some of the basic fundamentals of the book are herbal body care, herbal combinations for the bath, herbal perfumes, herbal perfumes flower based rose, herbal perfumes (special type), herbal toilet waters, lavender water, amber lavender, herbal toilet preparations, herbal skin care products, herbal treatments, herbal medicines, analysis of medicinal plants, manufacturers of standardized herbal extracts, phytochemicals and essential oils in India etc. This book contains the formula and manufacturing processes of herbal products. An attempt to blend ancient and modern science as well as art could be fruitful and such attempts must be carried out on sound scientific basis. The book is very resourceful for research scholars, technocrats, institutional libraries and entrepreneurs who want to enter into the field of manufacturing herbal beauty products.

## [Herbs & Herbal Products Finder, Directory of Herbs, Herbal Medicines, Cosmetics, Herbal Products, Essential Oils, Perfumes, Pan Masala & Tobacco Products](#)

**Author:** NIIR Board

**Format:** Paperback

**Book Code:** NI133

**Pages:** 988

**ISBN:** 8186623671

**Price:** Rs. 1,600.00    **US\$** 42.95

This directory (B2B database) basically deals with list of institutes, consultants, specialist for different medicinal, aromatic and herbs cultivation, supplier of seeds, planting materials for different medicinal and aromatic plants, herbal medicinal plants, herbs, leaves health care products, pan masala, tobacco & tobacco products perfumery compounds, chemicals, pesticides, spices, fragrances & flavors association of India, organization of pharmaceutical producers of India, pesticides, association of India pesticides manufactures & formulators association of India pharmaceutical and allied manufacturers distributors, ingredients suppliers for cosmetics (foreign) etc. This is the first Directory of its kind which covers addresses, phone and fax nos., e mail, product details of manufacturers of Herbal products, Medicines, Essential Oils, Perfumes, Pan Masala and Tobacco products along with Consultants, Importers, Exporters, Suppliers & Manufacturers of Plant & Machinery etc. The directory will be very helpful for new entrepreneurs, professionals, libraries and suppliers of herbs and other ingredients to these industries.

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## [Cultivation and Utilization of Aromatic Plants](#)

**Author:** H. Panda

**Format:** Paperback

**Book Code:** NI155

**Pages:** 608

**ISBN:** 817833027X

**Price:** Rs. 1,100.00 US\$ 29.73

Aroma has played a vital role, directly as well as indirectly, in the life of human beings since its appearance on the earth as a result of evolution. India, Egypt and Persia were amongst the first countries to have conceived the process of distillation of essential oils. Aromatic plants have essential or aromatic oils naturally occurring in them. They help heal mental ailments and other diseases. India is endowed with a rich wealth of medicinal plants. Aromatic (Aroma Producing) plants are those plants which produce a certain type of aroma. Their aroma is due to the presence of some kind of essential oil with chemical constituents that contain at least one benzene ring in their chemical configuration. These plants have made a good contribution to the development of ancient Indian material medica. In recent years, there has been a tremendous growth of interest in plant based drugs, pharmaceuticals, perfumery products, cosmetics and aroma compounds used in food flavors and fragrances and natural colors in the world. The chemical nature of these aromatic substances may be due to a variety of complex chemical compounds. There is a definite trend to adopt plant based products due to the cumulative derogatory effects resulting from the use of antibiotic and synthetics and except for a few cultivated crops, the availability of plant based material is mainly from the natural sources like forests and wastelands. There is a need to introduce these crops into the cropping system of the country, which, besides meeting the demands of the industry, will also help to maintain the standards on quality, potency and chemical composition. During the past decade, demand for aromatic plants and its products has attracted the worldwide interest, India being the treasure house of biodiversity, accounts for thousands of species which are used in herbal drugs. 90% of herbal industry requirement of raw material is taken out from the forests. This book basically deals with cultivation of *matricaria chamomilla*, present agro production technology status of celery, cultivation of *ocimum gratissimum* linn. var *clocimum*, the production and perfume potential of *jasminum* collections, chemical modification of turmeric oil to more value added products, biologically active compounds from turpentine oil, folk medicinal uses of indigenous aromatic plants in nepal , traditional uses of selected aromatic plants of bhutan and their cultivation prospects, blending aspects of perfumes with

turpentine constituents, the chemistry of mint flavour, essential oils of cinnamomum species, citral containing cymbopogon species etc.. The aim of publishing this book is to provide multidisciplinary information on aromatic plants. The book covers method of cultivation and utilization of various aromatic plants. This is very useful book for farmers, technocrats, agriculture universities, libraries, new entrepreneurs etc.

# **The Complete book on Natural Dyes & Pigments**

**Author:** NIIR Board of Consultants & Engineers

**Format:** Paperback

**Book Code:** NI160

**Pages:** 448

**ISBN:** 8178330326

**Price:** Rs. 1,100.00    **US\$** 29.73

Natural dyes are dyes or colorants derived from plants, invertebrates, or minerals. The majority of natural dyes are vegetable dyes from plant sources. Dyeing is the process of imparting colors to a textile material. Different classes of dyes are used for different types of fiber and at different stages of the textile production process, from loose fibers through yarn and cloth to completed garments. There are technologies that manufacture the pigments for plastics, rubber and cosmetics. Therefore; dyes and pigments have a vast area of applications and have a huge demand in industry. Contrary to popular opinion, natural dyes are often neither safer nor more ecologically sound than synthetic dyes. They are less permanent, more difficult to apply, wash out more easily, and often involve the use of highly toxic mordant. Of course, the colour possibilities are far more limited; the color of any natural dye may be easily copied by mixing synthetic dyes, but many other colors are not easily obtained with natural dyes. However, some mordant are not very toxic, and the idea of natural dyestuffs is aesthetically pleasing. Applying natural dyes in your fabric production using enzymes will reduce your production cost and improve control. There are various kind of natural dyes; quinonoid dyes, cyanine dyes, azo dyes, biflavonyl dyes, omochromes, anthraquinone, coprosma gesus etc. The use of natural dyes in cloth making can be seen as a necessary luxury to trigger off a change in habits. Dyes which stand out for their beauty and ecological attributes would never be employed on just any material but on noble fabrics such as wool, silk, linen or cotton, made to last more than one season. Market value will benefit from consumer preferences for environmentally friendly products, which will support consumption of high performance dyes and organic pigments. This book basically deals with the use of carotenoids as food colours , bianthraquinones and related compounds, intermediate degradation products of biflavonyls, dyestuffs containing nuclear sulphonic and carboxylic acid groups, quinonoid dyes, cyanine dyes, optical whitening agents, natural dyes for food, stability of natural colourants in foods effect of additives, pyrimidine pigments, the total synthesis of the polyene pigments, red pigment from geniposidic acid and amino compound, effect of acid and amine on the formation of red pigment from geniposidic acid, effect of the substituted position of amino group and chain length of amino compound

etc. Due to pollution problems in synthetic dyes and pigments industry, the whole world is shifting towards the manufacturing of natural dyes and pigments. The present book contains techniques of producing different natural dyes and pigments, which has huge demand in domestic as well as in foreign market. It is hoped that entrepreneurs, technocrats, existing units, institutional libraries will find this book very useful.

## [Directory / Database/ List of Companies, Industries and Traders of Medicinal Plants & Herbs, Herbal Products & Extracts, Ayurvedic & Herbal Medicines \(3rd Edition\)](#)

**Format:** CD-Rom

**Book Code:** NID79

**Price:** Rs. 3,658.00    **US\$** 200.00

Offline Business directory is the best thing in today's business world. If you are searching for Buyers, then this Directory/Database is the perfect tool for you. By having the right business leads, you would be able to have immediate communication with prospective businesses, partners and customers through this boundless list of All India Companies in csv excel editable format (easy sorting and filtering). We offer an extensive suite of Directories/ database to assist you in reaching the right and targeted businesses and people quickly and easily. Business, B2B&Irm;, Industrial Directories, Mailing List are used for sales planning, finding Buyers, Sector, Business House and marketing research to perform business analysis. With our company database/Directory, you will have access to company list, Corporate/Leading Companies, Small & Medium Enterprises (SME), you will find a business list consisting of company contact details. We compiled list of companies in excel format to give you access to over hundred thousands of major & minor businesses and companies. From small business to Corporate Houses, our data is complete with business contact information to help you connect with the right companies or buyers. This database collection is a great resource for Buyers and those suppliers who offer their goods and services to Trade, Manufacturing industry, Companies, Corporate Houses & Industries in India. Directory / Database/ List of Companies, Industries and Traders of Medicinal Plants & Herbs, Herbal Products & Extracts, Ayurvedic & Herbal Medicines (2nd Edition) Contains over 7,100 records. Details Includes: Company Name ( 7,100), Postal Address (7,200), City, Postal Code, Contact Person (350), Phone (5,800), E-mail (1300), Website (300), Fax (90) and Description. Note: All Records does not contain all fields of information. However, maximum information has been incorporated. Format: MS Excel

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## [Compendium of Herbal Plants](#)

**Author:** H. Panda

**Format:** Paperback

**Book Code:** NI170

**Pages:** 424

**ISBN:** 8178330393

**Price:** Rs. 975.00 US\$ 25.95

India is one of the leading Herbs producer and exporter in the world. Several meticulous researches were conducted and experimented with herbs. They arrived at more precise conclusions about the usefulness of diverse plants and herbs that are utilized in different fields like medicine, cosmetics, perfumes and so on. Herbal plants have been used for medicinal applications from earliest time, when man began caring for his body and health. The Ayurveda healing is completely based on herbs, which have definite medicinal importance or significance. In the primeval times, the Indian sagacious held the view that ayurveda herbs are the only resolution to treat numeral health related problems and diseases. Herbal products are replacing the synthetics products because of its harsh nature. Producing herbs for the medicinal market has received a lot of interest from potential commercial growers, but it is still a new and uncertain market. Herbal products are in huge demand in the developed world for health care for the reason that they are efficient, safe and have lesser side effects. The emphasis of development of new biologically active molecule has been gradually replaced by use of total herbs as medicine and food supplements. There are numerous types of herbal plants; some of them are paeonia officinalis, panicum pilosum, papaver bracteatum, papaver rhoeas, papaver somniferum, petasites hybridus, petroselinum crispum, peucedanum ostruthium, phaseolus trilobus, phaseolus vulgaris etc. Growing herbs is easy to do, and people continue to turn their love for gardening into successful businesses growing and selling fresh cut herbs, herb plants, and other herb related products. The major contents of the book are pulmonaria officinalis, punica granatum, pyrus sinensis, quercus petraea, quercus robur, ranunculus ficaria, raphanus sativus, rhamnus catharticus, rhamnus frangula, rheum palmatum, rhododendron arboreum, sm., rhus toxicodendron, ricinus communis, ribes nigrum, robinia pseudoacacia, rosmarinus officinalis, rosa centifolia, rubia tinctorum, rubus fruticosus etc. Ayurved, Siddha, Unani and Homoeopathy are largely based on the plants. Now herbal based products have very good present and future prospects in International market. The present book enlightens hundreds of herbal plants with their photographs, which has good medicinal values. This is very useful book for

agriculture universities, researchers, cultivators, ayurvedic pharmacies etc.

# **Cultivation and Processing of Selected Medicinal Plants**

**Author:** NIIR Board of Consultants and Engineers

**Format:** Paperback

**Book Code:** NI175

**Pages:** 600

**ISBN:** 8178330032

**Price:** Rs. 1,175.00    **US\$** 31.75

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 priced 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 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.

# **The Complete Book on Jatropha (Bio-Diesel) with Ashwagandha, Stevia, Brahmi & Jatamansi Herbs (Cultivation, Processing & Uses)**

**Author:** NIIR Board of Consultants and Engineers

**Format:** Paperback

**Book Code:** NI176

**Pages:** 592

**ISBN:** 8178330040

**Price: Rs. 1,500.00 US\$ 39.95**

Jatropha proves to be a promising Biofuel plantation and could emerge as a major alternative to diesel thus reducing our dependence on oil imports and saving the precious Foreign Exchange besides providing the much needed energy security.

Jatropha oil displacing conventional fossil fuel makes the related project fully eligible. The Jatropha plantation primarily focuses cultivated green biodiesel as an alternate source of fuels that can propel engines, generators and transportation as well as power generation in the future and replace existing sources. The main factor that makes the major difference is the cost of the bio fuel that it can be made cheaper than the petro diesel and on a long term basis without affecting the operational economics. Ashwagandha (also called as, Indian Ginseng), Stevia a natural non caloric sweetener, Brahmi (brain tonic) and Jatamansi are the important herbs which have very good medicinal values. Ashwagandha increases the count of white blood cells and prepares the body to produce antigens against various infections and allergies. It is also considered as a tonic for the heart and lungs as its regular intake controls the blood pressure and regulates the heartbeat. It has a strong nourishing and protective effect on the nervous system.

Ashwagandha has been used as a sedative, a diuretic, a rejuvenating tonic, an anti inflammatory agent, aphrodisiac and an immune booster. It is especially beneficial in stress related disorders such as arthritis, hypertension, diabetes, general debility, etc. It has also shown impressive results when used as stimulants for the immune system. It is considered as an adaptogen that stimulates the immune system and improves the memory. Stevia also known as the sweet leaf which is an all natural sweetener, derived from a plant called stevia rebaudiana. It has no calories, no carbohydrates, and it has a glycemic index of zero, which makes it the sweetener of choice for many diabetics all over the world. The herbs are carefully nurtured and harvested at only certain times of the year. Stevia comes in many forms; stevia supreme, stevia ultimate stevia, stevia liquid stevia, fruit flavoured stevia and many more.

Brahmi is used as a herbal brain tonic, to rejuvenate the body, as a promoter of memory and as a nerve tonic. It improves memory and helps overcome the negative effects of stress. It is unique in its ability to invigorate mental processes whilst reducing the effects of stress and nervous anxiety. Brahmi induces a sense of calm and peace. Brahmi has gain worldwide

fame as a memory booster and mind alertness promoter. Jatamansi has the power to promote awareness and calm the mind. It is a very useful herb for palpitation, tension, headaches, restlessness and is used for promoting awareness and strengthening the mind. It aids in balancing the body of all three Ayurvedic doshas. This herb's sedative properties increase awareness, as opposed to valerian that dulls the mind. Aromatic, antispasmodic, diuretic, emmenagogue, nervine, tonic, carminative, deobstruent, digestive stimulant, reproductive some of the properties of Jatamansi herb. This book describes about the medical properties, important uses and applications, cultivation, chemical constituents, harvesting and post harvesting, yield and other properties of herbs like safed mulsi, brahmi, jatamansi, ashwagandha, senna, shatavari and more. This book also deals with biodiesel, biofuel and petro crops : an alternative to conventional fuels, the potential of jatropha curcas in rural development and environment protection, prospects of expanding market for use of jatropha oil, jatropha: potential as insecticide/pesticide etc. The present system of medicine is gradually gaining popularity mainly because of less or no toxic or side effects of herbal drugs. So, these herbs have very good future prospects globally. This book contains cultivation, processing and uses of Jatropha, Ashwagandha (*Withania somnifera*), Stevia rebaudiana, Brahmi (*Bacopa monnieri*) and Jatamansi (*Nardostachys Jatmansii* DC.). This book will prove to be an invaluable resource for researchers, technocrats, agriculturists, agriculture universities etc.

# **The Complete Technology Book on Flavours, Fragrances and Perfumes**

**Author:** NPCS Board of Consultants & Engineers

**Format:** Paperback

**Book Code:** NI196

**Pages:** 864

**ISBN:** 9788190439886

**Price:** Rs. 1,675.00    **US\$** 150.00

Many studies have been carried out on fragrances, flavors and perfumes worldwide. These products have important commercial value not only in India but in all over the world. Perhaps the most interesting results of the last few years in the fragrance and flavour fields are the many compounds described in this book. They may be used to engender or augment flavours in foodstuffs, chewing gums and medicinal products like mouthwash and toothpaste. The same compounds or closely related ones serve also to produce desirable aromas for perfumes, perfumed compositions such as soaps, detergents and cosmetics etc. Perfume is a mixture of fragrant essential oils and/or aroma compounds, fixatives, and solvents used to give the human body, animals, objects, and living spaces a pleasant scent. The odoriferous compounds that make up a perfume can be manufactured synthetically or extracted from plant or animal sources. Perfumes have been known to exist in some of the earliest human civilizations either through ancient texts or from archaeological digs. Modern perfumery began in the late 19th century with the commercial synthesis of aroma compounds, which allowed for the composition of perfumes with smells previously unattainable solely from natural aromatics alone. Flavors and Fragrances (F&F) are the essential ingredients that lend taste and smell, respectively, to food and personal or home care products. Without these, all the products that we use such as toffees, chips, toothpastes, soaps and shampoos, would be tasteless or odorless, boring, functional products. Fragrances are different types; floral, fruity, woody, flower, natural, etc. and has applications in different field; soap and toiletries, cosmetics, household applications etc. Flavoring in common language denote the combined chemical sensations of taste and smell, the same terms are usually used in the fragrance and flavors industry to refer to edible chemicals and extracts that alter the flavor of food and food products through the sense of smell. Applications of flavouring are in numerous field; meat, chocolate, dairy, beverage, confectionary, bakery, teas etc. Due to the high cost or unavailability of natural flavor extracts, most commercial flavorants are nature identical, which means that they are the chemical equivalent of natural flavors but chemically synthesized rather than being extracted from the source materials. Traditionally, while flavors and fragrances were viewed as the most customized of all raw

materials, and therefore commanded higher prices, in the last decade, prices have been pushed down consistently by large manufacturers. This book basically deals with the roots and the evolution of perfumery, the part of hedonism, how perfumery is linked to the other fine arts, the art of composition, conclusion, introduction, fragrancing of functional products, line extensions, perfumery for household products, floral series : rose notes, jasmin notes, hyacinth notes, lilac and lily, orange blossom notes, tuberose notes, violet notes, mignonette, woody series: sandal notes, peppery notes, caryophyllaceous notes, introduction, aroma composition of various teas, flavory ceylon black tea, keemun black tea, green tea, pouchong tea and jasmine tea, lotus tea, soap manufacture, raw materials, shaving soap, transparent soaps, super fatted toilet soaps, the milling process, coloured soaps, perfumes, soap compounds, acacia, almond, almond soap, amber soap, buttermilk, brown windsor, carnation, chypre, cologne, cyclamen, fougere, heliotrope, hyacinth, jasmin, lavender, lilac, lily, etc. This book contains formulae and processes of various types of flavours, fragrances and perfumes. New entrepreneurs, technocrats, research scholars can get good knowledge from this book.

**The Complete Technology Book on Herbal Beauty Products  
(Cosmetic Industry) with Formulations, Manufacturing Process,  
Machinery Equipment Details & Plant Layout**

**Author:** Dr. Himadri Panda

**Format:** Paperback

**Book Code:** NI340

**Pages:** 392

**ISBN:** 9788195370160

**Price:** Rs. 1,750.00    **US\$** 44.95

The Complete Technology Book on Herbal Beauty Products (Cosmetic Industry) with Formulations, Manufacturing Process, Machinery Equipment Details & Plant Layout (3rd Edition) Herbs from India and their significance are well-known around the world. Herbal Beauty Products are in high demand on the global market and are a priceless gift from nature. Herbal formulations have always piqued interest due to their high activity and, in comparison to synthetic medications, fewer or no negative effects. Herbs and spices have long been used to improve and maintain human beauty. Extensive herbal beauty treatments were once performed in India's royal palaces to heighten sensual appeal and preserve general hygiene. Herbal Oil, Herbal Perfume, herbal conditioner, herbal soap, herbal shampoo, and other herbal cosmetics are created and used on a daily basis. They are gentle on the skin because they are manufactured with botanical components that are high in natural vitamins and antioxidants. With time, they will only make skin healthier and gentler. The demand in the herbal beauty products market will grow at approximately 6.1% CAGR. The target market nearly holds ~5.9% share in the overall beauty products industry. Increasing focus on healthy skin and hair and surging demand for natural remedies has positioned the herbal beauty products market. The increased demand for chemical-free hair and skin products along with growing awareness about cruelty-free cosmetics products is supporting the market growth. The significant rise in the influence of social media and beauty blogs that are communicating the benefits of herbal Cosmetics products is likely to influence sales of herbal beauty products. The availability of the various types of herbal beauty products and improving distribution networks are playing a key role to drive market growth. The book covers a wide range of topics connected to Herbal Beauty Products, as well as their formula. It also includes contact information for machinery suppliers, as well as images of equipment and plant layout. A comprehensive reference to manufacturing and entrepreneurship in the Herbal Beauty Products business. This book is a one-stop shop for everything you need to know about the Herbal Beauty Products manufacturing industry, which is ripe with potential for manufacturers, merchants, and entrepreneurs. This is the only comprehensive guide to commercial herbal cosmetics

manufacture. It provides a feast of how-to knowledge, from concept through equipment purchase.

# Herbal Cosmetics Handbook (Formulae, Manufacturing Processes with Machinery & Equipment Details) 4th Revised Edition

**Author:** Dr. Himadri Panda

**Format:** Paperback

**Book Code:** NI354

**Pages:** 496

**ISBN:** 9788195370108

**Price:** Rs. 1,775.00 US\$ 45.00

Herbal cosmetics are formulated, using different cosmetic ingredients to form the base in which one or more herbal ingredients are used to cure various skin ailments. Herbal cosmetics are natural and free from all the harmful synthetic chemicals which otherwise may prove to be toxic to the skin. Compared to other beauty products, natural cosmetics are safe to use. The global herbal beauty products market is anticipated to grow at a compound annual growth rate (CAGR) of 5.2%. Rising focus on appearance and looks coupled with increased acceptance of herbal products among consumers are some of the factors that are expected to help the expansion of the market worldwide. The increased demand for chemical-free beauty products along with growing awareness about cruelty-free cosmetics is supporting market growth. The Herbal Cosmetic industry in India has been developing in a faster pace. The demand for herbal cosmetic products is provoked by changing lifestyles of the consumers, growing awareness among them regarding the harm caused to their bodies after usage of chemical-based cosmetics products, and increasing concern among the population to look good. Further, it is anticipated that the Indian Herbal Cosmetic industry is expected growing at a CAGR of 19% over the forecast period of continue in the coming years as well. The book cover various aspects related to different Herbal Cosmetics with their process and also provides contact details of machinery suppliers with equipment photographs and plant layout. A total guide to manufacturing and entrepreneurial success in Herbal cosmetics industry. This book is one-stop guide on Herbal cosmetics industry, where opportunities abound for manufacturers, retailers, and entrepreneurs. This is the only complete handbook on the commercial production of Herbal cosmetics. It serves up a feast of how-to information, from concept to purchasing equipment.

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## India Menthol Crystal Market

**Author:** Niir Team

**Format:** CD-Rom

**Book Code:** NI1332

**Pages:** 93

**ISBN:** 9788195676903

**Price:** Rs. 115,640.00    **US\$** 2,000.00

The India menthol crystal market reached USD 111.55 million in 2021 due to increasing demand for natural-based products from the cosmetics and pharmaceutical industry. The India menthol crystal market was valued at USD 111.55 million in 2021 and is likely to grow with a CAGR of 6.71%, in value terms, over the forecast period 2022-2028 and is expected to reach USD 172.97 million by 2028. The growth of growth is attributed to the rapid expansion of pharmaceutical companies along with the surge in demand for natural menthol crystals in pharmaceutical industries, rising usage of menthol crystals in cough syrups, analgesic balms, and foot sprays, and growing demand for menthol crystals among the geriatric population to treat used to treat minor aches and pains of the muscles or joints such as arthritis, backache, and sprains. Additionally, the rapid pace of urbanization in India, improving living standards, and rising disposable income leads to demand for natural plant-based health and cosmetics are expected to fuel the growth of India menthol crystal market in India. Moreover, a surge in demand for natural menthol crystals in the food and beverages industries as a flavor and fragrance agent in food such as chewing gums, candy, confectionery and flavor and fragrance agents in a beverage are influencing the India menthol crystal market. These menthol crystals are widely used as a denaturant, flavoring agent, and fragrance ingredient in the formulation of a wide variety of cosmetics and personal care products such as soap, bath, aqueous cream, Talcum Powder etc. The surge in the usage of menthol crystal in various end industries will propel the demand for menthol crystal in the upcoming years. Type Overview in the India Menthol Crystal Market Based on the type, the India menthol crystal market is categorized into natural menthol crystal and synthetic menthol crystal. The natural menthol crystal segment captured the highest market share with 72.78% in 2021 and is expected to generate USD 128.07 million in revenue by 2028. The growth of the segment is attributed to the surge in demand for natural menthol crystal as raw materials for manufacturing cosmetic products and used as a flavor and cooling agent in cough medicines and Lozenges. Application Segmental Analysis Based on the application, the India menthol crystal market is segregated into pharmaceutical formulations, cosmetics, flavoring industries, and others. The

pharmaceutical formulations segment accounted for the highest market share with 71.70 % in 2021 and is projected to reach USD 121.36 million by 2028. It is due to menthol crystal used in pharmaceutical formulations for its analgesic and cooling effects and used as a flavoring agent for toothpaste, hygiene products, chewing gum, etc. Menthol crystals have effective antispasmodic properties, are highly potent in relaxing muscles and are widely used to treat minor aches & pains of the muscles/joints (such as arthritis, backache, sprains). Regional Overview in the India Menthol Crystal Market By region, the India Menthol Crystal market is segmented into North India, South India, West India, and East India. North India captured the largest market share with 36.72% in 2021 and is projected to generate revenue of USD 61.96 million by 2025 due to North India's states being the major producer of menthol crystal in India. Menthol crystals in India are mostly grown in states like Uttar Pradesh, Haryana, Bihar, and other parts of India. Uttar Pradesh is the largest producer of Mentha oil, accounting for 90% of the country's total Mentha production, followed by Punjab, Haryana, Bihar, and Madhya Pradesh. India Menthol Crystal Market: Competitive Landscape Companies include Takasago International Corporation, Expo Essential Oils, N.S. Mint Products Pvt. Ltd., K.M. Chemicals, A.G. Industries, Bhagat Aromatics Ltd, Silverline Chemicals, Hindustan Mint & Agro Products Pvt., Neeru Menthol Private Limited, Vinayak Ingredients (INDIA) Pvt. Ltd. are the key players in the India menthol crystal market. About Us: NPCS is a research, advisory, and analytics company. We have a specialized team of consultants catering to a wide range of verticals, which include Consumer Goods & Retail, Healthcare, ICT, Chemical, BFSI, and many others. In a very short span of time, we have expanded beyond the basic services to advanced research services such as Financial Modelling, Supply & Demand Analysis, Pricing Analysis, Competitive Analysis, and various other services which not only facilitates the senior executives across industries but giants who have established names in different industry verticals. Through our indispensable business insights, we are able to help our clients to achieve the mission-critical tasks which facilitate them to build the organizations of tomorrow.

# About NIIR

**NIIR PROJECT CONSULTANCY SERVICES (NPCS)** is a reliable name in the industrial world for offering integrated technical consultancy services. NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.

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NPCS also publishes various process technology, technical, reference, self employment and startup books, directory, business and industry database, bankable detailed project report, market research report on various industries, small scale industry and profit making business. Besides being used by manufacturers, industrialists and entrepreneurs, our publications are also used by professionals including project engineers, information services bureau, consultants and project consultancy firms as one of the input in their research.

Our Detailed Project report aims at providing all the critical data required by any entrepreneur vying to venture into Project. 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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