

Extraction and Production of Essential Oils

(Phytochemicals, Aromatic Chemicals, Aromatic Compounds, Spice Oils and Oleoresins, Curcumin, Rose Oil Extraction, Chilli Oil, Ginger Oil, Black Pepper Oil, Chilli Oleoresin, Cresols, Menthol Oil, Clove Oil & Citronella Oil, Patchouli Oil, Garlic Oil)

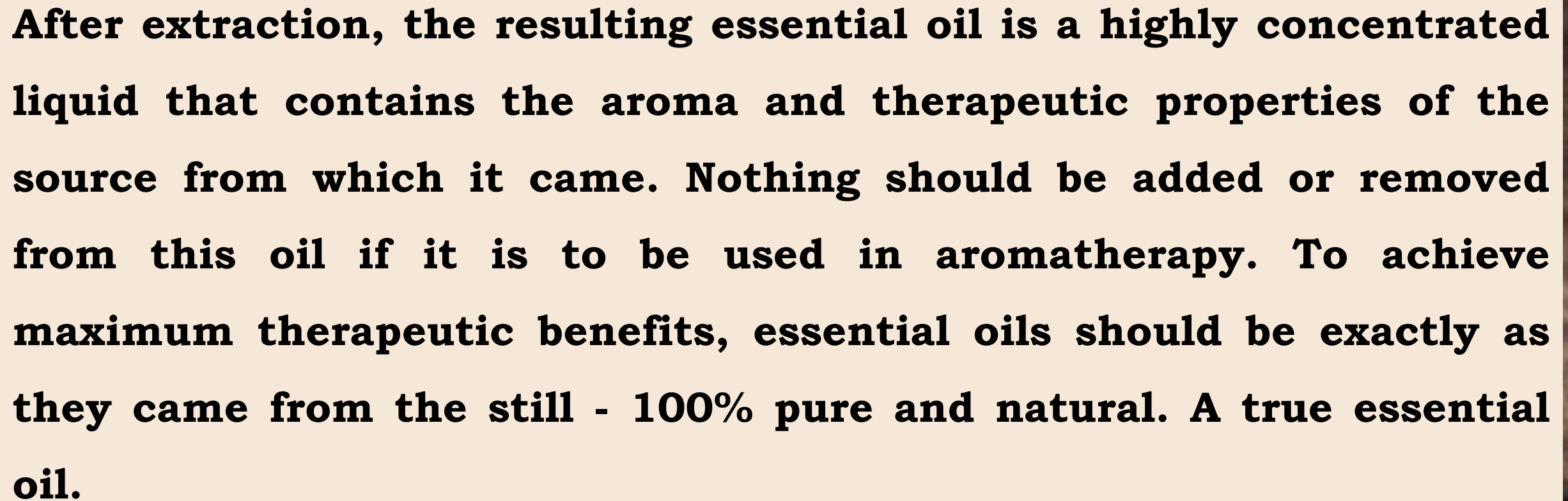
Introduction

The essential oils are extracted from the botanical material using a variety of extraction methods to suit the material extracted from and are highly odoriferous liquids.

Essential oils are the fragrant, highly concentrated natural constituents that are found in plants. They are what give the plant its characteristic odour and contain the healing power of the plant from which it was extracted. When used correctly, essential oils bring a wide range of health benefits since unlike modern drugs, they have no side-effects.

How are Essential Oils Extracted?

Mostly, essential oils are obtained by steam distillation although other methods are used. Citrus fruits are cold pressed by mechanical means, and the oil from delicate flowers is obtained by a more sophisticated method that produces what is known as an absolute - not an essential oil. This special process is used because delicate flowers cannot withstand the high temperatures needed to extract essential oils by steam distillation.

The background of the page features a rustic wooden surface. In the upper portion, there are glass distillation stills and a small green plant. In the lower portion, there are yellow and orange flowers, a wooden mortar and pestle, and a wooden bowl. The text is centered in a white box with a black border.

After extraction, the resulting essential oil is a highly concentrated liquid that contains the aroma and therapeutic properties of the source from which it came. Nothing should be added or removed from this oil if it is to be used in aromatherapy. To achieve maximum therapeutic benefits, essential oils should be exactly as they came from the still - 100% pure and natural. A true essential oil.



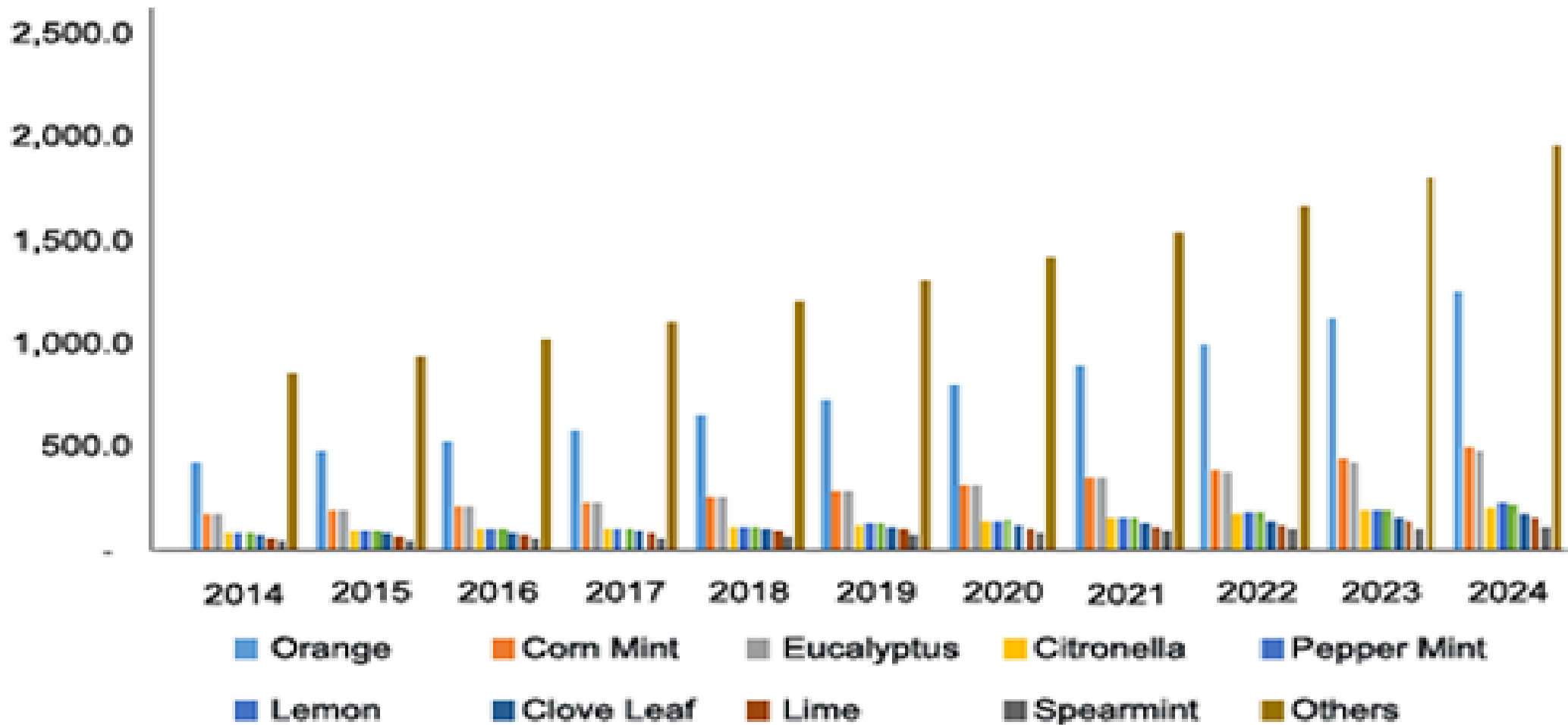
Market Outlook

The global essential oil market size exceeded USD 6.0 billion in 2015. Increasing applications in aromatherapy coupled with rising demand for fragrances and flavors in food & beverages and personal care is expected to drive market growth over the forecast period.

Essential oils are also widely utilized in cleaning & home products owing to their superior antibacterial and antiseptic properties.

Customers are keen on specialized products as various applications require specific characteristics and ingredients.

U.S. Essential Oil Market Revenue by Product, 2014 - 2024 (USD Million)



Essential oils demand from spa & relaxation application is expected to grow at a CAGR of 8.7% from 2016 to 2024. Essential oils have a great soothing and calming effect on the nervous system and are also beneficial in blood circulation stimulation, which has triggered the essential oils demand from spa & relaxation application segment.

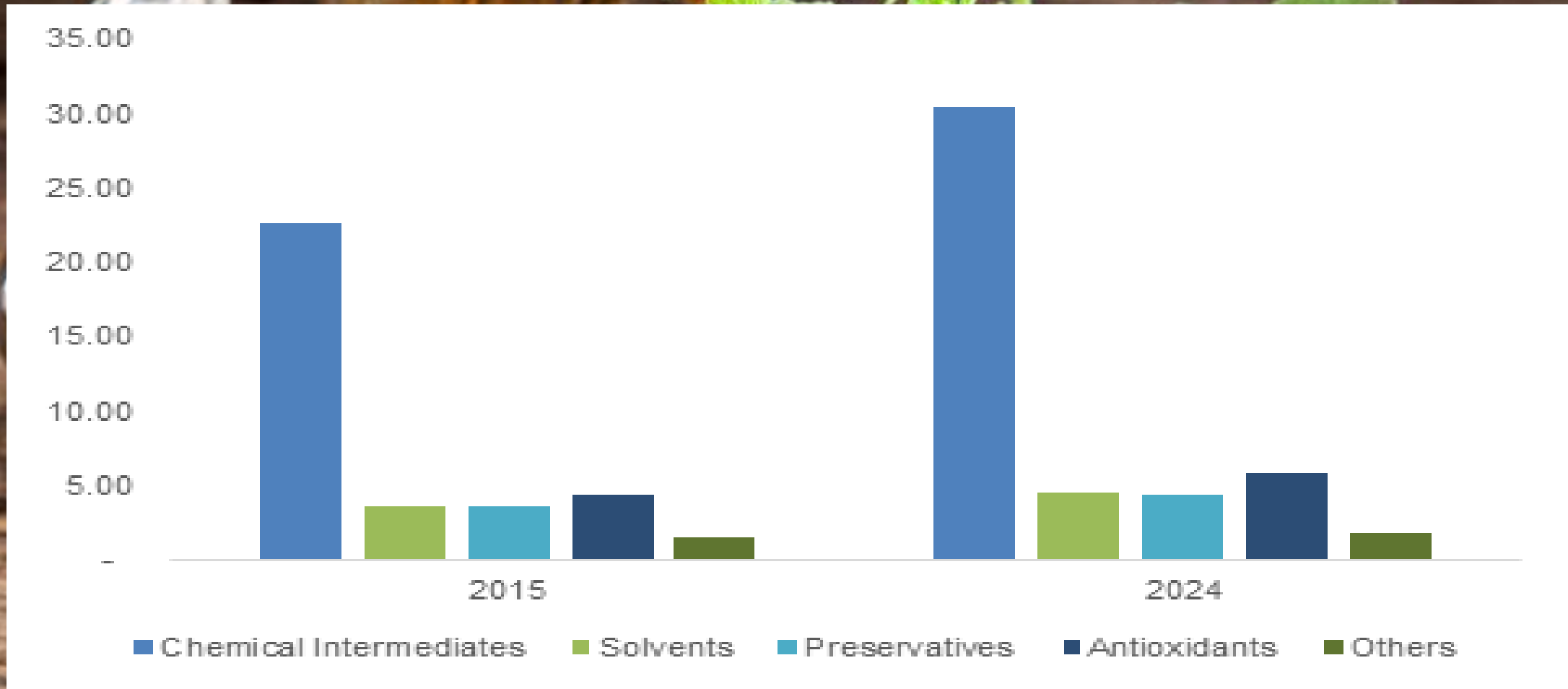


The essential oil market is segmented on the basis of product type, application, and geography. The product segment is further classified as orange, eucalyptus, corn mint, peppermint, citronella, lime, lemon, clover leaf, spearmint, ginger and others. Based on application, the essential oil market is classified as food & beverages, medical, cleaning & home, spa & relaxation, and others. Spa & relaxation is estimated be the fastest growing application segment, closely followed by the applications of essential oils in Food & beverages.

Essential oils and oleoresins market is expected to show healthy CAGR in the next four to five years.

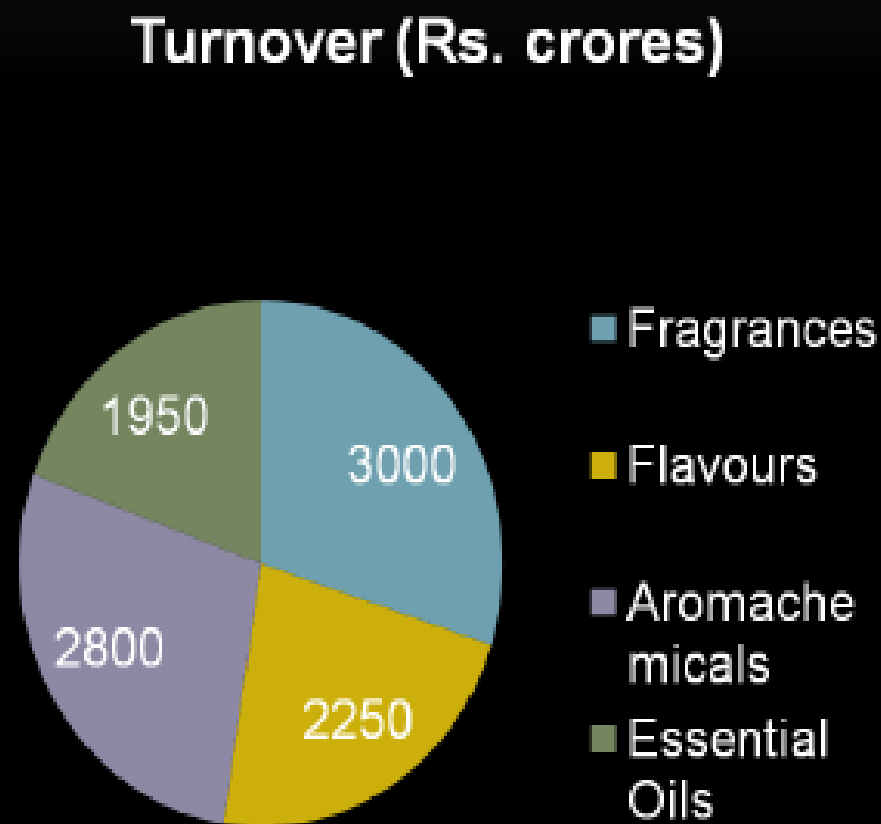
The global cresols market is single-handedly driven by the burgeoning demand for vitamin E. Vitamin E is primarily used for fortification of food and beverages and in dietary supplements. Changing lifestyles coupled with the increasing incidence of food adulteration is leading to the greater demand for dietary supplements. The opportunity in the global cresols market was worth US\$266.07 mn in 2016 and is poised to reach US\$325.01 mn by the end of 2023, progressing at a CAGR of 3.3% therein.

U.S Cresols Market Share, By Application, 2015 - 2024 (USD Million)



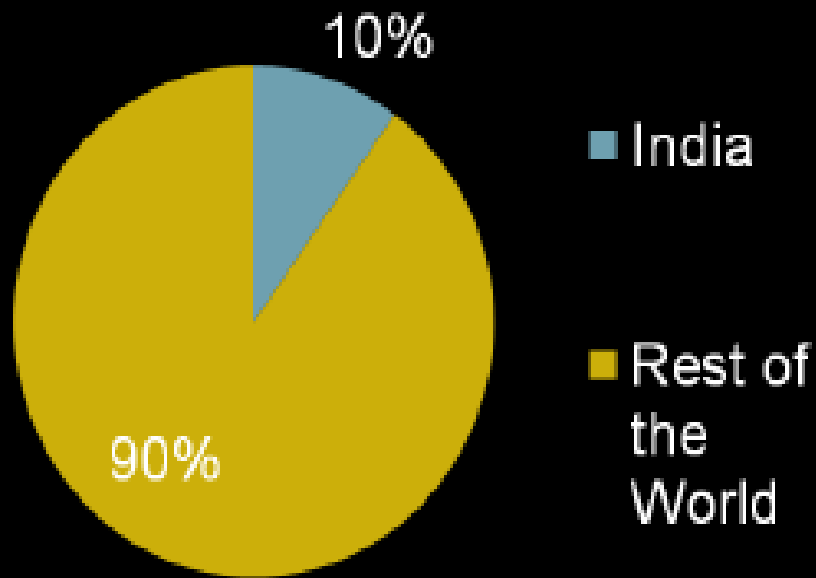
Break Up of Indian Fragrance & Flavour Industry

- Fragrances : Rs. 3000 Crores
- Flavours : Rs. 2250 Crores
- Aroma chemicals : Rs. 2800 Crores
- Essential oils : Rs. 1950 Crores

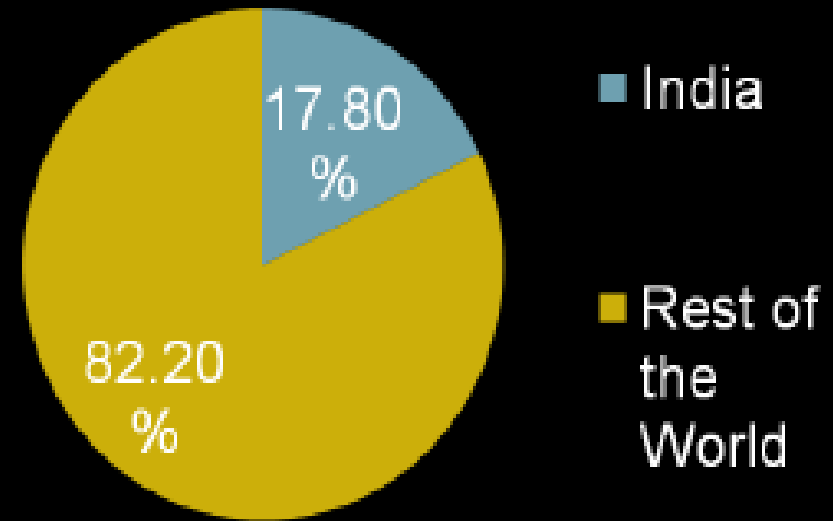


India- Market Share

Market Share



Population



**Niir Project Consultancy Services (NPCS) can provide
Detailed Project Report on**

**Essential Oils, Phytochemicals, Aromatic Chemicals,
Aromatic Compounds, Spice Oils and Oleoresins**

➤ **Curcumin**

Turmeric is native to Asia and India. It is very important spice in India, which produces nearly the whole world's crop and used 80% of it. It has been used in Indian systems of medicine for a long time. Turmeric is a very unique and versatile natural plant product combining the properties of a spice of flavourant, a colourant of brilliant yellow dye, cosmetic and a drug....[Read more](#)

➤ **Rose Oil Extraction**

Out of 5000 varieties of roses in India, only fasli Rosa and Edward Rose yield rose oil. The Fasli variety is found in Aligarh and Edward rose in kannauj. Rose oils are in constant use in perfume spray industry, toilet soap industry and talcum powder industry....[Read more](#)

➤ Chilli Oil

Spices are used for flavour, colour, aroma and preservation of food or beverages. Spices may be derived from many parts of the plant: bark, buds, flowers, fruits, leaves, rhizomes, roots, seeds, stigmas and styles or the entire plant tops. The term “herb” is used as a subset of spice and refers to plants with aromatic leaves.....[Read more](#)

➤ **Ginger Oil**

Ginger is one of the oldest and most important spices used in different kinds of food preparation. Ginger possesses a warm pungent taste and a pleasant odor, hence it has a wide use as a flavoring in numerous food preparation, beverages, ginger bread, soups, pickles and many soft drinks....[Read more](#)

➤ **Black Pepper Oil**

The trade distinguishes between two principal types of pepper, viz., the black and the white both derived from the same plant *piper nigrum* L. (fam. Piperaceae), a climbing or trailing vine like shrub native to southern India. Black pepper is the dried whole unripe fruit of this plant....[Read more](#)



➤ Garlic Oil

Garlic is one of the important bulb crops grown and used as spice and condiment throughout India. It possesses a high nutritive value and medicinal property. Allicin, the principle of garlic has antibiotic properties. The plant is a small herb and produces a group of small bulbs called cloves covered with a thin skin....[Read more](#)



➤ Chilli Oleoresin

The paprika oleoresins are produced by solvent extraction of dried, ground red pepper fruits, using a solvent-system compatible with the lipophilic/hydrophilic characteristics of the extract sought and subsequent solvent-system removal.....[Read more](#)

➤ Cresols

Cresols are organic compounds which are methylphenols. They are a widely occurring natural and manufactured group of aromatic organic compounds which are categorized as phenols (sometimes called phenolics). Depending on the temperature, cresols can be solid or liquid because they have melting points not far from room temperature....[Read more](#)

➤ **Herbal Natural Essential Oil (Super Critical Liquid Carbon Dioxide Process)**

Herbs like pudina, Palmrosa, citronella etc. can be easily used for the steam distillation process for the distillation of essential oil, but tuberosa, rose cannot be used for steam distillation process since by steam temperature it break down its entity and oil loss its property....[Read more](#)

➤ **Menthol Oil, Clove Oil & Citronella Oil**

Menthol, Spearmint Oil, Citrate oil and Basil oil from Northern India found roads in to other countries. Menthol has got wide range of applications ranging from perfumery, cigarettes, liquors, as a horning agent in chewing gum and number of pharmaceutical formulations....[Read more](#)

➤ Patchouli Oil

Patchouli oil is an essential oil, which is produced from the botanical source of plant name *Pogosternum cablin*. It is extracted from patchouli leaves as raw material by using solvent extraction or super critical carbon dioxide extraction process....[Read more](#)



➤ **Oleoresin of Spices**

Oleoresin (Oleo + Resin) is a homogeneous mixture comprising of resin and oils that are volatile in nature. Before understanding the details of Oleoresins, let us first look at the nature of resin. Resin is obtained from many plants, especially coniferous trees, as a hydrocarbon secretion. And as far as its usage is concerned, no one is unaware that resin is used as adhesives and varnishes.....[Read more](#)

For more details visit at:

**Essential Oils, Phytochemicals, Aromatic Chemicals,
Aromatic Compounds, Spice Oils and Oleoresins**

**Perfumes, Flavours, Flavors, Aromatic Chemicals and
Essential Oils Formulation and Technology**

Major Queries/Questions Answered in our Report?

- 1. How has the industry performed so far and how will it perform in the coming years?**
- 2. What is the Project Feasibility of the Plant?**
- 3. What are the requirements of Working Capital for setting up the plant?**
- 4. What is the structure of the industry and who are the key/major players?**

- 5. What is the total project cost for setting up the plant?**
- 6. What are the operating costs for setting up the plant?**
- 7. What are the machinery and equipment requirements for setting up the plant?**
- 8. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up the plant?**
- 9. What are the requirements of raw material for setting up the plant?**

- 10. Who are the Suppliers and Manufacturers of Raw materials for setting up the plant?**
- 11. What is the Manufacturing Process and Formulations of the plant?**
- 12. What is the total size of land required for setting up the plant?**
- 13. What will be the income and expenditures for the plant?**
- 14. What are the Projected Balance Sheets of the plant?**

- 15. What are the requirement of utilities and overheads for setting up the plant?**
- 16. What is the Built up Area Requirement and cost for setting up the plant?**
- 17. What are the Personnel (Manpower) Requirements for setting up the plant?**
- 18. What are Statistics of Import & Export for the Industry?**
- 19. What is the time required to break-even?**

- 20. What is the Break-Even Analysis of the plant?**
- 21. What are the Project financials of the plant?**
- 22. What are the Profitability Ratios of the plant?**
- 23. What is the Sensitivity Analysis-Price/Volume of the plant?**
- 24. What are the Projected Pay-Back Period and IRR of the plant?**
- 25. What is the Process Flow Sheet Diagram of the plant?**
- 26. What are the Market Opportunities for setting up the plant?**
- 27. What is the Market Study and Assessment for setting up the plant?**
- 28. What is the Plant Layout for setting up the plant?**

Reasons for buying our report:

- **The report helps you to identify a profitable project for investing or diversifying into by throwing light to crucial areas like industry size, market potential of the product and reasons for investing in the product**
- **The report provides vital information on the product like it's characteristics and segmentation**
- **The report helps you market and place the product correctly by identifying the target customer group of the product**

- **The report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials**
- **The report provides a glimpse of government regulations applicable on the industry**
- **The report provides forecasts of key parameters which helps to anticipate the industry performance and make sound business decisions**

Our Approach:

- **Our research reports broadly cover Indian markets, present analysis, outlook and forecast for a period of five years.**
- **The market forecasts are developed on the basis of secondary research and are cross-validated through interactions with the industry players**
- **We use reliable sources of information and databases. And information from such sources is processed by us and included in the report**



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A wooden mortar and pestle sits on a rustic wooden surface. In the foreground, there is a bunch of small yellow flowers and a single larger orange flower. In the background, there are glass bottles and a small green plant.

Locate us on

Google Maps

<https://goo.gl/maps/BKkUtq9gevT2>

Contact us

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NIIR PROJECT CONSULTANCY SERVICES

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Who are we?

- *One of the leading reliable names in industrial world for providing the most comprehensive technical consulting services*
- *We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad*

What do we offer?

- *Project Identification*
- *Detailed Project Reports/Pre-feasibility Reports*
- *Business Plan*
- *Market Research Reports*
- *Technology Books and Directory*
- *Industry Trend*
- *Databases on CD-ROM*
- *Laboratory Testing Services*
- *Turnkey Project Consultancy/Solutions*
- *Entrepreneur India (An Industrial Monthly Journal)*

How are we different ?

- *We have two decades long experience in project consultancy and market research field*
- *We empower our customers with the prerequisite know-how to take sound business decisions*
- *We help catalyze business growth by providing distinctive and profound market analysis*
- *We serve a wide array of customers , from individual entrepreneurs to Corporations and Foreign Investors*
- *We use authentic & reliable sources to ensure business precision*

Our Approach

Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation

Who do we serve?

- *Public-sector Companies*
- *Corporates*
- *Government Undertakings*
- *Individual Entrepreneurs*
- *NRI's*
- *Foreign Investors*
- *Non-profit Organizations, NBFC's*
- *Educational Institutions*
- *Embassies & Consulates*
- *Consultancies*
- *Industry / trade associations*



Sectors We Cover

- *Ayurvedic And Herbal Medicines, Herbal Cosmetics*
- *Alcoholic And Non Alcoholic Beverages, Drinks*
- *Adhesives, Industrial Adhesive, Sealants, Glues, Gum & Resin*
- *Activated Carbon & Activated Charcoal*
- *Aluminium And Aluminium Extrusion Profiles & Sections,*
- *Bio-fertilizers And Biotechnology*
- *Breakfast Snacks And Cereal Food*
- *Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling*

- *Bamboo And Cane Based Projects*
- *Building Materials And Construction Projects*
- *Biodegradable & Bioplastic Based Projects*
- *Chemicals (Organic And Inorganic)*
- *Confectionery, Bakery/Baking And Other Food*
- *Cereal Processing*
- *Coconut And Coconut Based Products*
- *Cold Storage For Fruits & Vegetables*
- *Coal & Coal Byproduct*

- *Copper & Copper Based Projects*
- *Dairy/Milk Processing*
- *Disinfectants, Pesticides, Insecticides, Mosquito Repellents,*
- *Electrical, Electronic And Computer based Projects*
- *Essential Oils, Oils & Fats And Allied*
- *Engineering Goods*
- *Fibre Glass & Float Glass*
- *Fast Moving Consumer Goods*
- *Food, Bakery, Agro Processing*

- *Fruits & Vegetables Processing*
- *Ferro Alloys Based Projects*
- *Fertilizers & Biofertilizers*
- *Ginger & Ginger Based Projects*
- *Herbs And Medicinal Cultivation And Jatropha (Biofuel)*
- *Hotel & Hospitality Projects*
- *Hospital Based Projects*
- *Herbal Based Projects*
- *Inks, Stationery And Export Industries*



- *Infrastructure Projects*
- *Jute & Jute Based Products*
- *Leather And Leather Based Projects*
- *Leisure & Entertainment Based Projects*
- *Livestock Farming Of Birds & Animals*
- *Minerals And Minerals*
- *Maize Processing(Wet Milling) & Maize Based Projects*
- *Medical Plastics, Disposables Plastic Syringe, Blood Bags*
- *Organic Farming, Neem Products Etc.*

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- *Paper And Paper Board, Paper Recycling Projects*
- *Printing Inks*
- *Packaging Based Projects*
- *Perfumes, Cosmetics And Flavours*
- *Power Generation Based Projects & Renewable Energy Based Projects*
- *Pharmaceuticals And Drugs*
- *Plantations, Farming And Cultivations*
- *Plastic Film, Plastic Waste And Plastic Compounds*
- *Plastic, PVC, PET, HDPE, LDPE Etc.*

- *Potato And Potato Based Projects*
- *Printing And Packaging*
- *Real Estate, Leisure And Hospitality*
- *Rubber And Rubber Products*
- *Soaps And Detergents*
- *Stationary Products*
- *Spices And Snacks Food*
- *Steel & Steel Products*
- *Textile Auxiliary And Chemicals*



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

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