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INDUSTRIAL USES AND CURRENT TRENDS OF ESSENTIAL OIL IN INDIA

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Essential oils are the chemical compound of odoriferous nature which are highly volatile obtained from plant tissue by different distillation method. An essential oil is a concentrated, hydrophobic liquid containing volatile aromatic compounds from plants.

THE PARTS OF PLANTS YIELDING ESSENTIAL OILS

Flowers : Jasmine, Rose, Hyacinth etc.

Leaves : Lavender, Rosemary, Eucalyptus, peppermint etc.

Fruits : Lemon, Oranges, Bergamot, Bursera

Barks : Cinnamon, Casia, Camella etc.

Stem : Citronella, Geranium, Patchouli etc.

Wood : Sandal, Cedar, Bursera

Rhizome: Ginger, Calamus

Roots : Vetiver



MAJOR OILS FROM INDIA

1. Lemon grass
2. Cinnamon
3. Jasmine
4. Mint
5. Ajowan
6. Coriander
7. Artemisia
8. Caraway
9. Celery
10. Citronella
11. Corn mint
12. Cumin
13. Eucalyptus

CURRENT SCENARIO

- Presently the total **world production** of essential oil is about **1,10,000-1,20,000 mt**
- Out of which **India produces 16%, holding (17,500t)**
- **Third place** after China & Brazil in the world production,
- In terms of value its share is much better with 21-22%.
- 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.

- No doubt the developing countries have dominant position in the world production of essential oils and as for as, India is concerned there are many aromatic crops which are being cultivated economically and have great potential for export.
 - Among 4,00,000 species 2000 species are aromatic belonging to 60 families
 - World production rate – 10% annually
 - Trade of aromatic oil is 1.8 US dollar
 - According to international trade data – Three trade centres for aromatic oils
1. USA
 2. Hong-kong
 3. Germany

China is leading country in export of essential oil. India has emerged as an major exporter during 2008 – 50,545MT valued at 30 million US\$

CURRENT TRENDS

- Nature created plants, herbs and shrubs containing essential oils for creation of flavors and fragrances
- Through ages of scientific research men learned the techniques of analysis and were more or successful in finding out the ingredient that these natural product consisted of
- Flavors and fragrances from natural sources were not adequate to meet the total demand and it is necessary to bridge the demand–supply gap through synthetically made products
- However from odor or essence point of view natural products are better and logically there is more demand of natural products than those derived synthetically.

Industrial Uses

- **Medical & veterinary preparation**
- Therapeutic purpose
- Inhalation
- Oral intake
- Massages
- Gargles
- Carminative – Spear mint, Pepper mint, Chamomile
- Antiseptic – Turmeric
- Sedatives – Sandal wood , Lavender, Mint, Chamomile
- CNS stimulant – Basil, Clove, Jasmine
- Bronchodilator – Ginger, Black Pepper, Angelica
- Antistress – Cedar wood and Lemon
- Muscle relaxant – Allspice
- Aromatherapy
- **Cosmetics and toiletries** :Perfumes, deodorants, powder, creams, soaps
- Moisturize, rejuvenate, and protect from pollutants, infections and skin ailment
- Application
- Massage, usually with a carrier oil
- Hand or foot lotion
- Shampoo
- Skin care with lotions and oils
- Lip Balm
- Anti-Wrinkle Cream
- Natural perfume
- Hair Care Preparation
- Dental and house hold purpose dental preparation, Toothpaste, antiseptics, cement preparation, mouth wash
- Paper and Printing industry for production of carbons, crayons, label and ribbons
- Ink Industry
- Food & Beverages : flavouring agents and preservatives
- Textile Industry



- Petroleum industry : Waxes, solvent, lubricants
- Insecticide Preparation

FAFAI

- **Flavors and Fragrances Association of India (FAFAI)** has been organizing number of seminars, Conference, Public proceeding of annual Conferences, Books and Magzines
- which are extremely useful in several research and development centres in various known University, R &D Centres, Industrial Laboratory etc.
- The Fragrances and Flavours Association of India (FAFAI) will hold its 21st biennial seminar on the “Emergence of Indian F&F Industry as a Global Player” at Pune
- "The F&F Industry in India is not only growing domestically, but it is also showing its presence in the International Markets—both in terms of market presence and in terms of Global Mergers & Acquisitions,"

REASON FOR INCREASING DEMAND OF ESSENTIAL OIL

- People are fashionable
- Just to remain youth full
- Nature movement
- Awareness of aroma therapy in ayurvedic system
- Very good anti ageing
- Skin softening
- Stress reliever

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