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THE FAFAI JOURNAL

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Dear Friends,

We are happy to announce that the XXIV FAFAI Seminar will be held in the picturesque city of Kochi between 18th & 20th January 2019.

As the F&F Industry worldwide grapples with multiple challenges related to availability of raw materials, sustainability and rising prices of both natural as well as synthetic ingredients, this event will provide an excellent forum for all of us to meet and discuss these issues along with other developments of our industry.

Kochi, erstwhile known as Cochin, is also known as the 'Queen of the Arabian Sea' and is the heartland of the spice trade in India and will provide a unique environment for all of us to get together, converge and confer on the issues of the day.

While formal announcements shall follow in due course, please kindly treat this as a personal invitation from my Managing Committee and me and save the date for a unique extravaganza in Kochi.

Looking forward to seeing you all in Kochi.

With best wishes,

Hasmukh Patel



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Dear Friends,

They say that the only constant in nature is change. And I think this applies to our F&F Industry more than ever before. As we grapple with multiple challenges on several fronts, raw material availability, now not only in naturals but also synthetics, ever changing and evolving regulatory landscape and an ever more demanding consumer pushing us towards greener, more sustainable and transparent business practices.

Looking at the various endeavours, practices and projects being taken worldwide, it is heartening to note how our industry is managing these challenges with both resilience and creativity. We as an industry have shown the initiative and the foresight to adapt and innovate and I am sure that this has more to do than just our creative genes of doing business.

Our society too faces its own unique set of challenges as human's grapple with a rapidly changing socio-economic and cultural environment around them. While each individual and society makes an effort to again innovate and identify tools which can help them face these challenges, I am happy to note that Yoga and Meditation, an unique offering of the rich, cultural heritage of India, symbolising the union of our inner and outer selves is increasingly being accepted as an universal means for human to find succour, peace, strength and inner guidance.

I wish each one of you success in your own individual journey of growth and development.

With fragrant wishes,

Rishabh C. Kothari

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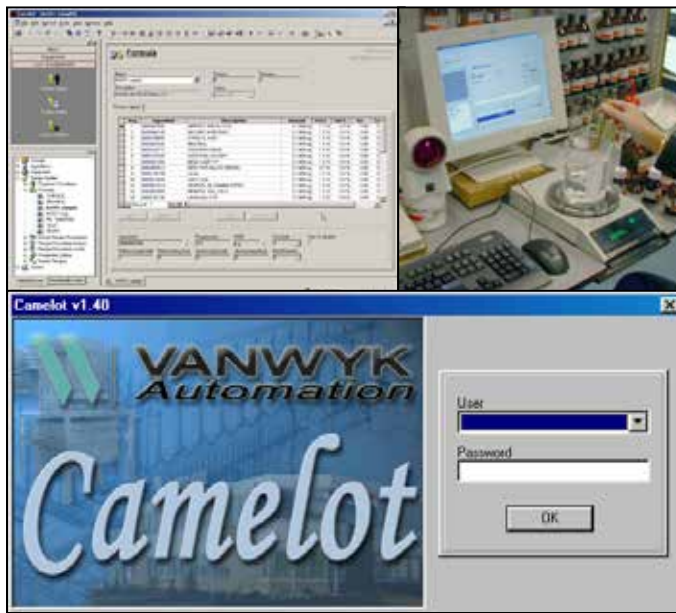
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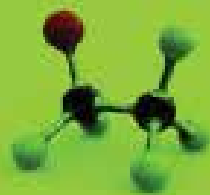
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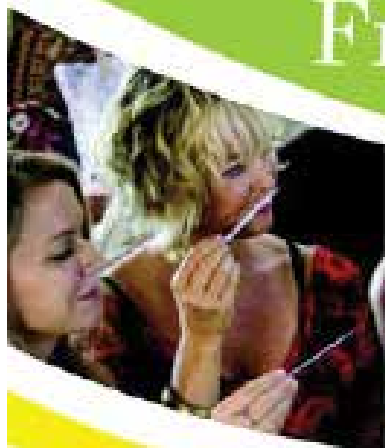
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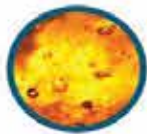
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One Day Workshop on "Interface 2018 – Speciality Aroma Chemicals"

A One day workshop on "Interface 2018 – Speciality Aroma Chemicals" was organized by Aroma Chemical Sub-Committee of Fragrances and Flavours Association of India at The Leela Palaces Hotels & Resorts, Mumbai on 10th march 2018.

The aim of the workshop was to encourage Indian Aroma Chemical manufacturers to present their latest creations which could be either import substitute product or the product not being manufactured by other Aroma Chemical companies.

Mr. Shabd Mehta, convener of the Aroma Chemical sub-committee welcomed the members and briefed about the purpose of conducting the workshop followed by the product presentation by Aroma Chemical manufacturers.

Mr. Jaideep Gandhi of LDG International, Delhi reviewed on status of Aroma Chemicals present and future.

In all seven aroma chemical manufacturers participated and displayed their speciality chemicals. The details are as follows:

1) Odochem Specialities , Bangalore

- Floralozone
- Piconia
- Florapal
- Allyl Phenoxy Acetate
- T - Floralozone

2) U.K. Aromatics & Chemicals, Boisar

- Citraflor
- Citrester
- Geranyl Iso Valerate
- Lavenol
- Woodenol

3) Aroma Aromatics & Flavours, Solan, H.P

- Thiomenthone Natural
- 3-Ethylpyridine
- 4-Methyl-5-Vinylthiazole
- 3-Mercaptohexanol
- Trophathiane

4) Nagar Haveli Perfumes & Aromatics, Silvassa

- Acetyl Propionyl, 2.3.5 – Tri Methyl Pyrazine
- Acetyl Valeryl, Gamma Methyl Decalactone

5) Kalpasutra Chemicals Pvt. Ltd., Mumbai

- Aldehyde C-14 (Gamma –Undecalactone)
- Aldehyde C-18 (Gamma – Nonalactone)
- Aldehyde C-11 (Methyl Octyl Acetaldehyde)
- Gamma Decalactone (4- Decanolide)

6) Privi Organics Pvt. Ltd., Navi Mumbai

- Prionyl, Nimberol,
- Timber Touch
- Alpha Damascone
- Carvacrol

7) Mehk Chemicals Pvt. Ltd., Navi Mumbai

- Ambrether
- Veticone
- Fructose
- Muguet Carbinol
- Penta Sandal

The workshop was attended by about 150 members from F & F industry and turned out to grand event. All the participants expressed their appreciation for organizing such workshop and requested for similar workshop in future also.

The workshop concluded with vote of thanks proposed by Hon. Jt.Secretary Mr. Sanjay Harlalka.

Special General Body Meeting

A Special General Body Meeting of FAFAI was held at FAFAI office at 3.30 p.m. on 21st April 2018.

Mr. Hasmmukh Patel, President, presided over the meeting and welcomed the members present. This was followed by other matters on the Agenda of the Special General Body which were discussed.

The meeting concluded with a cote of thanks by the Hon. Secretary Mr. Kamlesh Shah The meeting was followed by snacks and tea.

69th Annual General Meeting

The 69th Annual General Meeting of the Fragrances and Flavours Association of India will be held at 6.30 p.m. on Saturday, the 7th July 2018 at M.C. Ghia Hall, Bhogilal Hargovindas Building, 4th Floor, 18/20, K. Dubhash Marg, Kalaghoda, Mumbai – 400 001.

All the members are requested to make it convenient to present for Annual General Meeting on 7th July 2018.

One Day Workshop on "Interface 2018 – Speciality Aroma Chemicals"



One Day Workshop on "Interface 2018 – Speciality Aroma Chemicals"



One Day Workshop on "Interface 2018 – Speciality Aroma Chemicals"



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IFF breaks ground on flavours/fragrances site in Sri City

International Flavours and Fragrances Inc., a leading innovator of sensory experiences that move the world, has broken ground on a new flavours and fragrances plant located in Sri City, Andhra Pradesh, part of a larger investment into the Greater Asia region, the plant is expected to be commercialised in December 2019.



The ground-breaking ceremony was held in the presence of Mr. Ravindra Sannareddy, Founder Managing Director, Sri City; Mr. B. Anilkumar Reddy, Jt. Director, District Industries Centre, Chittoor and a host of senior executives from IFF.

The new facility, which will be largest flavour and fragrance manufacturing facility in India and the largest IFF site in Greater Asia, occupies a 32-acre/130,000m² plot and will serve IFF flavours and fragrances customers across India and the region.

"In this economically vibrant country, it is critical that we invest to provide our customers with winning tastes and scents" said IFF Chairman and CEO, Mr. Andreas Fibig. "This new facility is fitted with capabilities tailored for our customers' needs. Coupled with our excellent consumer insights teams and their deep understanding of the local markets, we are well positioned to live up to our promise to be our customers' partner of choice."

"India is a priority market for IFF. We are excited about our investment at Sri City and the world class manufacturing facility designed to meet our customers' current and future needs," said IFF India Managing Director, Mr. M.G. Prakash.

Built-in sustainability

The new facility, strategically located in Sri City, will have excellent logistics options, access to skilled labour, and solid infrastructure and utilities. In line with the company's dedication to drive sustainability across the entire organization, the site is designed for efficient water use and reuse, rainwater harvesting capabilities, energy-efficient building materials and equipment, maximization of natural daylight, and low consumption LED lighting.

"IFF has been a leader in India for more than 85 years, serving a wide customer base from global consumer companies to small and medium enterprises." Said Mr. Prakash. "IFF India has a rich talent pool that provides cutting-edge solutions to our customers for their flavour and fragrance needs. We are proud to be a part of the growth of the Indian economy and to the communities where we operate. Further we are excited to continue our legacy with this investment and look forward to many more years of growing with our customers."

Talking about the important features of Sri City. Mr. Sannareddy said, "Besides the world class industrial infrastructure, we are also setting up unique social infrastructure on the concept of 'walk to work' where all employees can afford to own a house close to their work spot."



Mr. ChandyThampi, Legal Director, IFF, Greater Asia Region said, "Excellent Logistics, coupled with good connectivity and the presence of well established MNC's. made IFF come to Sri City, which is on par with any other industrial park in the world."

Chemical Weekly, February 6, 2018

India's luxury market to cross \$30-bn by year end : Assocham

India's luxury market is set to grow \$30 bn from \$23.8 bn by the year end on back of growing exposure of international brands amongst Indian youth and higher purchasing power of the upper class in tier II and III cities, according to industry lobby, Assocham.



The chamber pointed out that economic growth, leading to urbanization and higher disposable incomes, has helped propel growth of luxury goods. Moreover increasing retail presence of luxury players across the country and higher numbers of brands entering the country have resulted in strong performance of luxury goods.

"well-travelled consumers and a stable economy, coupled with a young population with growing disposable incomes, spell good news for luxury brands across the world. With positive regulations and policies for the retail industry brought in place by the government, India is a market that can no longer be ignored by international brands," Assocham stated.

However, lack of suitable infrastructure, high tax rates, rental costs and parallel growing market of counterfeits are some major problems that are a cause of concern for luxury players entering India. "Thus, the Indian market represents huge opportunity for the foreign luxury players, but it needs to fix the existing loopholes," the chamber said.

According to a study conducted by the chamber, Indian luxury market is poised to expand five-fold in next three years and the number of millionaires is expected to multiply three times in five years.

Anchor to revamp personal care products portfolio

Anchor Health and Beauty care, which has given MNCs like Colgate some competition with its first 'vegetarian' toothpaste is reportedly refurbishing its FMCG portfolio.

Hiring professionals from bigger FMCG companies like Dabur, HUL and Godrej Consumer Products, its new team has now been entrusted with the job of reworking each of its personal care categories with innovative formulations and technology.

With brands like Dyna and Anchor, the Mumbai based FMCG company with revenues of less than Rs. 500 crore is hoping to grow its market share in categories such as toothpastes, soaps and toothbrushes. It is hoping that its brand recognition in the electrical space will help it gain consumers in the FMCG segment as well, even though Anchor Electricals was sold to Panasonic in 2007.



"Being a small player, we will take the FMCG battle one state at a time. We feel there is some amount of residual equity of the Anchor brand which can be leveraged in the FMCG categories even though it has exited the electricals and switches category by selling out to Panasonic. We have set internal goals for the business and will be refreshing all our personal care segments," said Mr. George Angelo, CEO, Anchor Health.

For instance, in the saturated Rs. 15,000 crore soaps category, it has innovated with new ingredients under its two brands, Dyna (beauty soaps) and Anchor (health soaps). While it has close to a 2 per cent value share in soaps in the national market, Anchor's stronghold in western states like Rajasthan and Gujarat have given it healthier shares in the region. About 55 per cent of Anchor's turnover is contributed by soaps.

Next on the cards is refreshing its toothpaste portfolio, where it is pitted against big MNCs like Colgate and HUL. Today,

toothpastes contribute about 40% of the company's turnover, But the Rs. 9000 crore category has been slowing down, so Anchor is now working upon a differentiated offering to make a mark again in the segment.

But in a low penetrated category like toothbrushes, Anchor has recently made a comeback with new technology from DuPont for making nylon bristles. "Toothbrushes are a Rs. 2500 crore category with low penetration at 20 per cent. Today, it is about 6-7 per cent of our business but we plan to take it up to 10 per cent." Said Angelo.

Bajaj Corp eyes buyout in personal care

Fast moving consumer goods company Bajaj Corp is sharpening focus on rural areas to drive volumes and is also scouting for acquisitions in the personal care category, according to Mr. Sandeep Verma the company's Sales and Marketing President.

Bajaj Corp, whose popular products in the hair oil segment include Bajaj almond Drops, Bajaj Kailash Parbat and Bajaj Brahmi Amla, is also planning to amplify its lower priced products in the rural market.



"our Re. 1 packet contributes to 40 per cent of our rural sales by volume. We are going to focus on it a lot more and drive its depth. Next financial year we would be launching Rs. 10 almond oil in rural and semi urban markets," said Mr. Verma. It has also increased its direct coverage in rural areas by 20 per cent after GST by appointing more distributors and direct sales agents.

The Rs. 6,500 crore hair oil industry is growing at 7.5 per cent and Bajaj Corp aims to increase its market share to 16-16.5 per cent in FY 19 from 14.5 per cent now.

The company focuses on the Rs. 4,000 crore valued added hair oil category that is growing at 13 per cent and would be launching a new hair oil next quarter. It recently launched



Coco Jasmine hair oil in Maharashtra, making its foray into the coconut hair space.

It had acquired NoMarks brand from Ozone Ayurvedics in 2013 to enter the skin-care and Mr. Verma said the company is looking at inorganic growth opportunities in the personal care segment.

"We are open to acquisitions in the personal care category if they have some sort of synergy with our distribution system." He said, adding that he expects NoMarks to become a Rs. 100 crore brand in the next two years. "The anti-marks category is growing at 30 per cent and is a Rs. 350-380 crore category. We will continue to invest very strongly in theNoMarks and we will have new products in the skincare segment under the NoMarks brand," he informed

Hpicindia, March 2018

Indian male grooming market set for 45% CAGR over next 3 years

The rising aspiration among Indian men to look better groomed, rapid urbanization and increasing per capita income has led to the Indian men's grooming market's rapid growth of more than 45% in the last 5 years, a new report from industry lobby, Assocham, has revealed. The male grooming industry is currently valued at Rs. 16,800 crore in India and expected to touch Rs. 35,000 crore in the next three years , growing



at compound annual growth rate (CAGR) of about 45%, the report added.

Interestingly, men in the age group of 25 to 45, spend more money on grooming and personal care products than women in India. In an evolving trend, men are beginning to look at innovative grooming and personal care products created specifically for them. Changing demographics and lifestyles, deeper consumer pockets, rising media exposure, greater product choice, growth in retails segment and wider availability were identified as the reasons for rising demand of cosmetics among India men, especially the youth. Men in smaller towns are displaying greater desire for grooming, especially in the whitening and fairness segment, the study revealed. There has been sharp increase in number of beauty salons and spas. The report estimated that 40-45% of salon business came from men.

Market segmentation

Men's grooming products can be divided into bath & shower products, hair care, skin care, deodorants and shaving products. According to Assocham, skin lightening and hair colour products are among the most popular. Shaving products have the largest market share in terms of revenue, and this market is expected to grow at a CAGR of 25%. Bath and shower, skin care and hair care products account for minor market share.

The companies that produced female cosmetics are introducing new product lines for men. These products range from facial cleansers and face creams, to razors and shaving gels, specifically meant for men with sensitive or oily skin. In addition, companies are also bundling perfumes and deodorants with supplementary benefits such as anti-perspiring and whitening properties, to drive product adoption across the country.

Hpicindia, February 2018

Corrections & Omissions

In the last edition of FAFAI Journal, we have published "Market Report- winter 2018" on page No. 81-103 and by oversight we did not mention the source of the article. The said report was received from M/s Ultra International BV, Netherlands. The error is regretted.

The Editor

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α - Pinene Synthetic (98%)	Fructose	Menthone (70:30)	p- Cresyl Acetate (99%)
α - Terpinene	Gama Decalactone	Menthone (98%)	p- Cresyl Methyl Ether
α - Thujene	Gamma Terpinene	Menthyl Acetate	Phenyl Ethyl Acetate
Anisic Aldehyde (99%)	Geraniol Synthetic (98%)	Methyl Anisate	Phenyl Ethyl Alcohol
Anisol	Geraniol Ex. Palmarosa	Methyl Benzoate (98%)	Phenyl Ethyl Benzoate
Anisyl Acetate	Geraniol For Soap	Methyl Chavicol (99%)	Phenyl Ethyl Butyrate
Anisyl Alcohol	Geraniol Natural	Methyl Eugenol	Phenyl Ethyl Caprylate
Allyl Caproate	Geranyl Acetate	Methyl Heptanone	Phenyl Ethyl Formate
β - Ionone	Geranyl Butyrate	Methyl Heptyl Carbonate	Phenyl Ethyl Methyl Ether
β - Pinene - Ex Mint	Geranyl Caprylate	Methyl Iso Eugenol	Phenyl Ethyl Phenyl Acetate (98%)
β - Pinene Synthetic (98%)	Geranyl Formate / Propionate	Methyl Phenyl Acetate	Phenyl Ethyl Propionate (99%)
Camphene	Greenal	Methyl Salicylate	Pommerol (P.E.I.A.E.) (99%)
Caryophyllene (98%)	Gurjan Balsam Light (α - Copaene)	Methyl Toluate	p-Tolualdehyde
Caryophyllene (80%)	Gurjan Balsam Light (Gurjunene)	Myrac Aldehyde	Rhodinol
Caryophyllene Oxide	Gurjan Balsam Dark	Myrcene	Rose Oxide
Citronellyl acetate / butyrate	Herbogreenal	Methyl hexyl ketone	Roseol
Citronellyl formate	Hydroxy Citronellal (Imp)	Nerol (90% +)	Sabinene
Citronellyl propionate	Hydroxy Citronellol	Nerol Super (70%)	Terpinolene
Caryophyllene Alcohol/Formate/Acetate	Iso Amyl Acetate (99%)	Nerolidol	Terpinen-4-ol
Citral	Iso Amyl Alcohol	Neryl Acetate / Formate	Terpineol
Citronellal	Iso Amyl Benzoate	3 - Octanol	Terpinyl Acetate
Citronellol (Natural)	Iso Amyl Butyrate	Octanyl Acetate	Tolyl Alcohol
Citronellol (96%)	Iso Amyl Phenyl Acetate (98%)	Ocimene	Trans Anethole (99%)
Cis - 3 - Hexanol	Iso Amyl Propionate	Olibanum Resinoid & Powder	Thymol
Cis - 3 - Hexenyl Acetate/ Butyrate	Iso Amyl Salicylate (99%)		
Cis - 3 - Hexenyl Benzoate	Iso Butenol Natural		
Cyclogalbanate	Iso Cyclo Citral		
D-Carvone	Iso Eugenol		
Delta - 3 - Carene	Isophytol		
Di Hydro Beta Ionone	Iso Menthone Dextro (90%)		
Di Hydro Eugenol	Isopulegol		
Di Hydro Terpineol	Javanol		
Di Hydro Terpinyl Acetate	L- Limonene		
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Eugenol			





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Apricot kernel Oil	Lavender Oil
Ajowain Oil	Lemongrass Oil
Anethi Oil	Mentha Piperita Oil
Basil Oil	Nagarmotha Oil
Cade Oil Crude & Rectified	Neem Oil
Cardamom Oil Steam Distilled	Orange Oil
Cedarwood Oil	Palmrosa Oil
Citronella Oil Java	Patchouli Oil (Indian)
Cinnamon Oil	Patchouli Oil
Clove Oil Rectified 85%	Peppermint Oil
Eucalyptus Oil (60% & 80%)	Spearmint Oil
Frankincense	Tea Tree Oil
Galbanum Oil	Vetivert Oil
Geranium Oil	



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MAHESH THAKKER 9821334436



Givaudan looks to ensure sustainable patchouli supply chain in Indonesia :

Swiss Fragrances and Flavours firm, Givaudan, is strengthening its sustainable patchouli oil sourcing and improving conditions for smallholder producers in its collection network on the island of Sulawesi in Indonesia.

This is being done through a multiyear project funded by the Givaudan Foundation and in cooperation with the international non-governmental organization, Swisscontact. The goal of the initiative is to promote best practices and improve living standards among the patchouli producer community while protecting precious natural resources on the island.

The project aims to offer training programmes to over 1,000 patchouli producers and their families on good agricultural and distillation practices, improved management of household income, as well as education on nutrition. Additionally, smallholder patchouli distillation units will be renovated to improve energy efficiency and reduce firewood consumption; trees will be planted as part of the climate-smart cultivation approach.

Givaudan's collection network in Indonesia comprises hundreds of smallholder farmers and distillers of patchouli oil on the island of Sulawesi since 2013, securing 100% of the supply of the essential ingredient.



"We are pleased to be working with Givaudan on this project which represents a first for sustainable Indonesian Patchouli production in terms of scope. In partnership with the producers, their families and local government actors, we aim to help increase smallholder production yields, promote

the protection of natural resources and create local ownership in the project," said Mr. Peter Bissegger, Director Market Development, Swisscontact.

Patchouli oil is prized by perfumers for its powerful, earthy and long-lasting character. The essential oil is distilled from the dried leaves of the patchouli plant and used to inspire perfumers' palettes for everything from fine fragrances to fabric care products.

- Chemical Weekly March 27, 2018

Global cosmetic chemicals market to be worth over \$11-bn by 2022 :

The global cosmetic chemicals market is set to cross \$11-bn by 2022, owing to rising use of cosmetic products across developed as well as developing economies. This was revealed in a new market report from TechSci Research. "Rising disposable income, changing consumer lifestyle and increasing awareness about a variety of cosmetic products available in the market is boosting consumption of cosmetic chemicals globally." Report noted.



Market segmentation

The report divides the market into emollients and moisturisers, surfactants, single use additives and thickening agents. Emollients & moisturisers segment grabbed the largest market share in 2016, and is anticipated to continue its dominance during the forecast period. However, thickening agents are expected to be the fastest growing cosmetic chemicals category during the forecast period. The demand for thickening agents is driven by their increasing consumption in various end-use products such as creams, conditioners, face washes, lotions and hair gels.

Growth in the market is also being driven by rising demand for cosmetic chemicals across various applications such as

skin care, hair care, colour cosmetics and perfumes and fragrances. Though the skin care application segment is the dominant application area, hair care segment is anticipated to emerge as the key application segment during the forecast period.

Leading players

Over the last few years, cosmetic chemicals manufacturing companies operating across the globe have been increasing their R&D investments to develop and manufacture chemicals that are harmless and provide better results. BASF is the market leader in, followed by Dow Chemical and Croda International. The market dominance of these major players is expected to continue over the course of next five years.

Chemical Weekly February 13, 2018

France's Robertet to work with Ashland to employ encapsulation technology for fragrance delivery :

US-based speciality chemicals firm, Ashland and French fragrances & flavours maker, Robertet, have announced a collaboration for employing encapsulation technology in fragrance delivery.

"The planned collaboration aims to leverage the unique capabilities and experience of both companies to develop technology to enhance the delivery, longevity and release profile of fragrance with measurable performance rendering consumer perceivable benefits," Ashland said in a press note.

The collaboration will offer new and existing customers access to Robertet fragrances with Ashland's deposition and encapsulation expertise for fabric care, home cleaning and personal care applications. The technology is expected to deliver the next generation of touch activated fragrance delivery.

"Providing a more complete solution of both fragrances and functional ingredient technology is a key strategic goal and we look forward to exceeding our client's expectations with the combination of Ashland's exciting Captivates encapsulation technology and Robertet's expertise in fragrance creation," said Mr. Philippe Maubert, Chairman and CEO of Robertet.

"Enhancing the overall sensory experience is a growing consumer trend influencing laundry and house hold cleaning purchases," said Mr. Vito Consiglio Group Vice President, Consumer Specialties, Ashland. "By partnering with Robertet, our customers will have the added advantage of accessing new encapsulation technology without the use of formaldehyde and isocyanate in the process. The new

Captivates encapsulation technology is designed to optimise the fragrance delivery, longevity and olfactory cues. This new technology expands Ashland's encapsulation portfolio."

The collaboration is effective throughout the globe, extending to global manufacturing and product delivery resources, the facilitate encapsulation development and supply chain management.

HPIC India February 2018

DKSH upgrades food & beverage innovation centre in Thailand :

Swiss market expansion services provider, DKSH's performance materials unit, has announced a major investment in its food and beverage business by expanding and upgrading its innovation centre in Bangkok, Thailand. The innovation centre specializes in developing food and beverage formulations and provides expert technical support to its business partners in Thailand. It currently develops over 150 prototypes and 200 formulations per year.



"We have made a major investment by expanding and revamping our food and beverage innovation centre in Thailand – one of our biggest markets. The new facilities and high-end equipment, run by our skilled specialists, will strengthen our technical service offering to our growing customer base and allow us to create many new business opportunities as a strategic partner to our clients," informed Mr. Ben Hopkins, Vice President, Global Food & Beverage Industry, Performance Materials, DKSH.

The centre is part of a network of seven DKSH food and beverage innovation centres (with 14 application laboratories) in Asia and Europe. It provides a broad range of specialized services including formulation application, product ideation and development support, stability testing, sensory evaluation, pilot trials and technical training. In addition, its specialists work closely with a dedicated regulatory team to provide consultation and support for the complex regulatory environment of the food and beverage industry in Thailand.

Food and beverages among top demand drivers for industrial enzymes :

A new study by US-based industry research firm, The Freedonia Group, has forecast the global demand for industrial enzymes used in food and beverages to increase 4.5% yearly to \$1.9-bn in 2021, roughly on par with the overall global average. Global demand for industrial enzymes used in all applications is projected to grow 4.0% per year to \$5.0-bn in 2021.

The Asia/Pacific region is expected to remain the largest regional market through 2021 for industrial enzymes used in food and beverages. The region is expected to post gains of 7.0% yearly to \$723-mn. "Although this pace will exceed that of other regions and will be above the over all average, a cooling Chinese economy will restrain growth to a pace well below the double-digit gains seen between 2006 and 2011," the report noted.

In contrast, demand gains for food and beverage enzymes in North America are forecast to be well below average, totaling \$520-mn in 2021 after yearly growth of 2.0%. Growth will be restrained by :

- Falling carbonated soft drink consumption in the US resulting in declining production of HPCS (high fructose corn syrup), a significant source of enzyme demand in the food and beverage industry in North America;
- Market maturity; and
- Stagnation in food and beverage production

In developing countries, demand growth for industrial enzymes will be driven by increasing personal incomes, which support enzyme gains in food, beverages, laundry detergents, and automatic dishwashing detergents, the report stated. The Asia/Pacific region is set to post the largest gains of any regional market for industrial enzymes, with the Chinese market accounting for over half of all value gains from 2016 to 2021. The US- the largest national market in 2016 accounting for one-third of over all demand is forecast to remain the largest single national market in 2021, despite below average growth between 2016 and 2021.

Chemical Weekly, February 6, 2018

Givaudan looks to boost skin microbiome research :

Swiss fragrances and flavours major Givaudan, is investing in its Applied Microbiomics Centre of Excellence in Toulouse, France, as part of its 2020 strategy commitment to strengthen product offerings. The company installed state-of-the-art



automation equipment at the Centre, which will accelerate the High Throughput Screenings (HTS) to offer more disruptive solutions.

The company said it will continue to invest in Active Beauty part of its fragrance division that offers a portfolio of innovative active cosmetic ingredients and its metagenomics platform to boost its pioneering position in the microbiome market. With over 15 years' experience in the field of microbiomics, Givaudan Active Beauty has been developing active cosmetic ingredients, designed to activate, protect or balance the skin microbiota.

"As the only fragrance company with in-house microbiome research capabilities, Givaudan remains committed to making strategic investments that will push the boundaries of scientific innovation to continue leading the microbiome trend," the company said.

Commenting on the development, Mr. Laurent, Bourdeau, Head of Active Beauty, said, "Not only are these investments in line with our 2020 company strategy, but our astonishing advancements in microbiomics allow us to bring groundbreaking cosmetic concepts to new and existing customers. As the microbiome trend continues to grow, our teams will be at the forefront of this exciting area of scientific research."

Givaudan said its scientists were the first to discover the creation of 'microbiome activated' ingredients as well as 'microbiome protecting' agents, resulting in two active cosmetic ingredients – microbiome activated skin brightener, Brightenyl and holistic skin renewal accelerator, Revivyl.

HPIC India February 2018

Frutarom acquires Israeli Biotechnology Research :

Israel based flavours & fragrances firm, Frutarom, has acquired 100% of the shares of ingredients company, Israeli

Biotechnology Research (IBR) for \$21-mn. The deal was carried out through a subsidiary of Frutarom.



Established in 1995, IBR researches, develops, manufactures and markets innovative and proprietary natural active ingredients for the cosmetics and dietary supplements industries. IBR has R&D laboratories and a production facility in the town of Yavne in Israel, and it employs around 30 people.

IBR's customer base in the US, Europe and Asia, are said to include "some of the world's leading cosmetic and personal care companies", according to Frutarom. IBR's activity will be joining Frutarom's existing work in the fields of algae growth and active ingredients extraction.

Mr. Ori Yehudai, President and CEO of Frutarom Group, pointed out that the acquisition is an important step in implementing Frutarom's strategic plan to develop worldwide business in the "growing and profitable fields of natural cosmetics". "We continue to expand our portfolio of unique and natural products, already constituting 75% of our sale volume," he said.

The acquisition is Frutarom's first in 2018, and its 32nd since 2015. The company has no intention of slowing down, revealing in a statement that it has an 'outstanding pipeline' for further strategic acquisitions within the scope of its operations and will continue to invest in order to achieve sales of \$2.25-bn by 2020.

HPIC India February 2018

Givaudan in talks to acquire French fragrance house :

Swiss fragrances & flavours major, Givaudan, has announced that it has entered into exclusive negotiations to acquire Expressions Parfumees, a French fragrance creation house. The firm said the move is part of its 2020 strategy to expand its fragrance business. Terms of the deal were not disclosed, but the transaction is expected to close in the first half of 2018.

Based in Grasse, the historic area of perfumery, Expressions Parfumees creates a variety of scents for fine fragrance, personal care and air care, including its NATCO range of perfumes designed for organic fragrances.

Givaudan expects the acquisition will strengthen its natural ingredients portfolio, as well as enable return to the company's roots in the Grasse region. "Acquiring Expressions Parfumees will fit nicely with our 2020 strategy to expand our presence with local and regional customers. This acquisition will be a wonderful way to come back to our origins in Grasse, a region that has always been close to our hearts and our history," remarked Mr. Gilles Andrier, CEO of Givaudan,

Expressions Parfumees is the first perfumery to be granted the French Origin Guaranteed label, demonstrating its know-how and commitment to its French heritage while retaining its international vision, according to the company. The company employs around 200 people and operates throughout Europe, Africa and the Middle East.

Givaudan's latest acquisition move follows its partnership with Draco Natural Products and the opening of its new creative centre in Mexico as its latest move to expand its ingredients offering and target key markets world-wide.

-Chemical Weekly January 16, 2018

Firmenich ties up with US biotech firm to develop natural ingredients for food & beverages :

Swiss fragrance and flavour firm, Firmenich, has announced an exclusive partnership with Blue Marble Biomaterials, a leading US biotechnology company specialized in natural and sustainable ingredients. With this partnership Firmenich said it will gain direct access to expertise ranging from "biomimicry to non-GM fermentation, enabling the design of sustainable natural ingredients for the food, beverage and flavour industries."



"At Firmenich, we are committed to shaping food and beverage solutions that consumers can trust with flavours drawn from nature that taste great and enhance nutrition. This is a win-win partnership, with Blue Marble Biomaterials technology complementing our leadership in flavour science, creation and consumer understanding," observed Mr. Chris Millington, President, Flavors, Firmenich.

Mr. James Stephens, CEO of Blue Marble, added that the firm's expertise in biotechnological pathways and fermentation technology would provide Firmenich with exclusive, novel natural ingredients.

"Firmenich has leading capabilities in naturals, with our ability to source specific natural raw materials, and develop our own extraction processes," said Dr. Jerome Barra, Vice President of Innovation & Design, Flavor Division, Firmenich. "In addition, we have a proven track record in bringing natural ingredients to the market. Our collaboration with Blue Marble Biomaterials is an extension of these capabilities, enabling us to address consumers' expectations for more transparent food and beverage experiences," he added.

Chemical Weekly February 20, 2018

Givaudan acquires over 40% stake in French natural ingredients firm, Naturex :

Swiss fragrance and flavour firm, Givaudan, plans to launch an open offer for French natural ingredients group, Naturex, after agreeing to buy 40.6% stake in the firm.



Naturex is a leading player in plant extraction and the development of natural ingredients and solutions for the food, health and beauty sectors. It reported sales of €405-mn in 2017 and operates from 16 production sites around the world.

Givaudan said it had agreed to buy the minority stake in the firm for €522-mn (\$645.66-mn) or €135 per share, adding it intends to offer the same price for the remaining outstanding shares in a mandatory cash offer. The deal values Naturex

around €1.3-bn (\$1.61-bn), or a roughly 42% premium over its market capitalization before the deal was announced.

Givaudan did not mention stake seller details. According to Reuters, the Lippens and Martel families own about 39% of Naturex.

"The acquisition of a significant shareholding in Naturex fits fully with our 2020 strategy to expand our offering to deliver natural products to our customers," said Givaudan's CEO, Mr. Gilles Andrier.

The deal will help Givaudan bolster capacity in one of the fastest-growing segments in the personal care and food industries, as consumers increasingly look to avoid artificial colouring and flavours. Valuations placed on flavour-and-fragrance companies have also soared as more chemical companies are drawn to this high-margin market. Givaudan's largest purchased for a decade will bring it extracts from green tea to the recently discovered superfood derived from the leaves of the Moringa tree.

Commenting on the deal, Mr. Louie D'Amico, President Designate of Givaudan's flavour division said, "Consumers around the world are increasingly demanding more natural and organic products from food and beverage companies. Naturex will be extremely complimentary to the acquisitions we have announced in this space over the last few years, namely Spicetec, Active International, Vika and Centroflora Nutra."

Early success in reducing water consumption

In an unrelated development, Givaudan it has reached its 2020 target for reducing water consumption three years ahead of schedule. "Reaching this important milestone on our journey to greater sustainability is just one of a series of achievements set out in our 2017 Sustainability Report.

"Our baseline target, set in 2009, was to reduce global water consumption per tonne of production by 15% by 2020. Through consistent efforts by our sites around the world to manage the way we use this precious resource, Givaudan has hit, and even surpassed this target three years in advance, reducing global water consumption by 19.4% versus 2009," a company statement said.

Chemical Weekly April 17, 2018



Sacheerome's aerosols fragrances - Energize the inner you!

Creating a fragrant equilibrium, in between the dispersion of liquid in the shape of vapors to establish a connection of mind, body and soul, is always undertaken by Sacheerome's master craftsmen. We, being a creative house, understand the intricacies of the Indian & Global Aerosols consumers and are a best fit to provide distinct fragrant energy in day to day life.



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Importance of Chemistry in Perfumery

Gaurav MITTAL **

Chemistry plays a wide role in perfumery industry. We all know that creating a perfume is an Art but indeed the main story of creating a Good Perfume is Chemistry and Science. While descriptions of fragrances invoke concepts familiar to musicians, such as notes and chords, it is of course not a spectrum of sound wave frequencies a perfumer must manipulate in their work but ensembles of volatile organic molecules. If it is the perfumer's job to paint a scent using the fragrance notes available to them, it falls to the chemist to expand the palette of notes to use. Of course perfumes are not simply static mixtures of fragrance molecules: reactions happen and can be exploited by the perfumer. In no other area is artistry and creativity alongside a knowledge of organic chemistry so important. Here, the responsibility for continued artistic innovation is shared by the chemists in their exploration of the scents around us and the search for new fragrance compounds. The skill of the perfumer is to arrange these molecules in much the same way that a painter applies brushstrokes to the canvas or a composer arranges the notes of a chord, and for this reason perfumery is a truly molecular art form.

Why we need Chemistry in Perfumery:

THE CONSUMERS

- What are the Issues for Consumers?

- In today's world there are lot of choices available for both consumer products and as well for the fine fragrances. Consumers are looking for something special and different.
- There is increasing concern for the environment and the sustainability of our consumer goods.



- What Solutions do Customers Want?

- Clear differentiation of products
- Real enjoyment from the fragrance of their products
- Fragrances that add value to the product experience
- Exciting new fine fragrances, a 'signature' smell
- Fragrance ingredients that are produced without damaging the environment



SCIENCE

What is the use of Chemistry & What does it Delivers?

Develop New Fragrance Molecules

- Interesting Olfactive Direction
- Unique Fragrances
- New Sources

Drive Process Research

- To produce molecules more cost effective (money & resources)
- Reduce Waste

Develop New Functional Ingredients

- To provide added benefits beyond simply the olfactive. e.g fragrance precursors for effective delivery, interesting effects.



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Perfumer: L'Soul Fragrances, www.aromaticandallied.com / www.aacfmcg.com

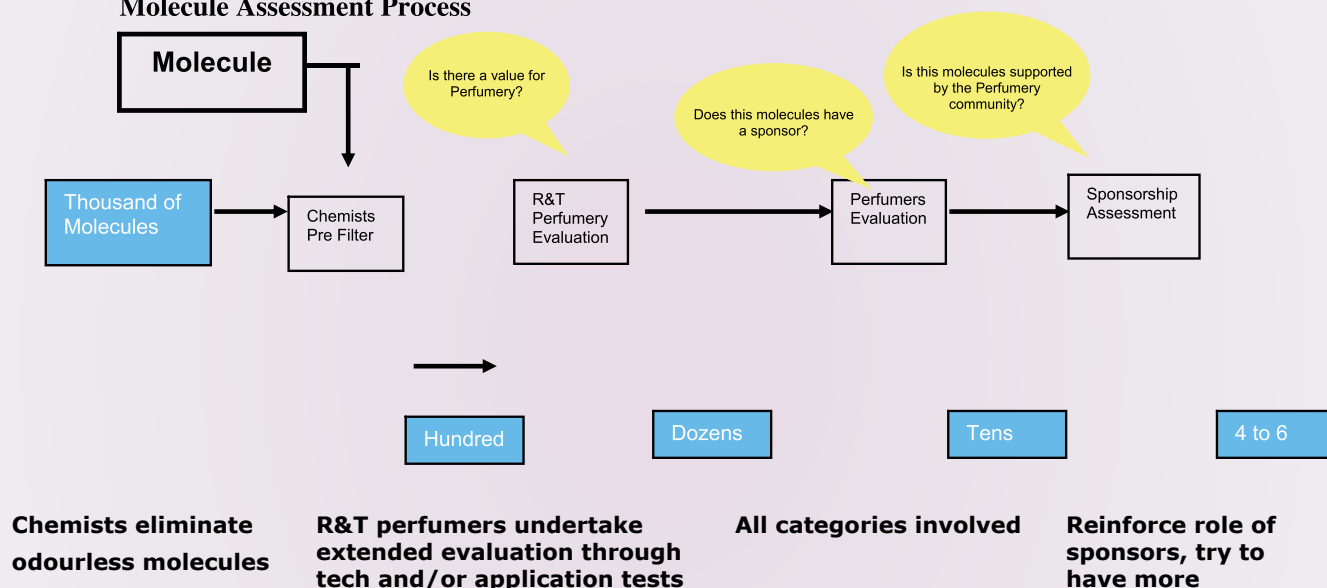
NEW FRAGRANCE MOLECULES

What is New Molecule Development?

- The chemistry team delivers novel differentiating molecules to the perfumers
- drivers for development are:
 - *Uniqueness*: Odour character, structural features, patentable
 - *Performance*: Substantive, diffusive, stabile, cost effective, and commercially viable
 - *High Impact*: Low threshold value, high door value
 - *Robust Regulatory Profile*: Biodegradable, non-toxic, non-allergic



Molecule Assessment Process



Benefits:

- High selection by R&T experts before Business Perfumers evaluation
- Business Perfumers focused on most valuable materials
- Differentiated process for Fine Fragrance & Consumer Products

Key Consumer Benefits:

- Exciting, new fragrances
- Better fragrance performance
- Value for money products
- Safe and reliable products

Key Customer Benefits:

- Differentiation for their products through uniqueness & enhanced performance
- Cost effective fragrance solutions



PROCESS RESEARCH

What is Process Research?

Process Research Aims to:

- Develop commercially viable ways of making new potential Captives
- Continuously work on synthesis improvement of key Captives and
- Specialities:
 - Materials under threat by increasing regulation
 - Potential loss or reduced availability of feedstocks
 - Continually review the palette, including cost optimisation
- *Explore novel technologies*
- Microreactor technology
- Green chemistry / ozonolysis
- Catalysis / Ionic liquids
- New extraction techniques
- Working with research institutes and third parties



Key Consumer Benefits

- More environmentally friendly production processes for producing fragrance ingredients
 - reducing complexity and waste, we have more efficient manufacturing
 - by considering feedstocks, we can produce sustainable fragrances
- More cost-effective ingredients available mean a wider choice of fragrance types
- Tighter regulations do not limit fragrance possibilities

Key Customer Benefits

- Cost reduction of ingredients and fragrance compounds widens the palate of possible odour directions
- A supplier dedicated to sustainable practices
- Adapting in advance to regulatory restrictions means an unlimited choice of fragrance directions



FUNCTIONAL INGREDIENTS

What is a Functional Ingredient?

Functional ingredient development aims to discover new chemicals that can provide and added functional benefit to consumer products, e.g.

- Long Lasting Fragrances
- of malodours
- Extended freshness



How Functional Ingredients Work?

Functional ingredients research focuses on 2 type of compounds:

- *Fragrance Precursors (Pro-fragrances)*
 - Molecules formed by the chemical bonding of a perfumery raw material to a carrier
 - The fragrance is released by a trigger, e.g. the release of Tonkarose aroma is triggered by light
 - Cues consumer to change, or offers extra burst of fragrance when required
 - Outperforms free fragrance notes in sensory panel testing
 - Part of the search for new release mechanisms
- *New Malodour-Counteracting compounds*
 - Search for new molecules or technologies that significantly outperform in sensory panel testing
 - Develop new AMRE precursors or inhibitor which deliver clear malodour reduction in sensory panel testing (AMRE malodour releasing enzyme is produced by natural skin bacteria, and turns the odourless acids in sweat into key underarm malodours)

Key Consumer benefits of Functional Ingredients

Better performance for perfumed products:

- Lasting fragrance
- Prolonged freshness
- Malodour reduction



Key Customer benefits

- More effective products
- Added claimable benefits and effects



Gaurav Mittal is a Director & Perfumer in Aromatic & Allied Chemicals, India involved in Manufacturing of Natural Essential Oils, Organic Essential Oils & Natural Fragrances. He is a Chemical Engineer and ISIPCA - France Graduate in Perfumery with professional experience of working with IFF and Givaudan worldwide. His latest achievement is launching of India's first Organic Beard Oil & Beard Balm

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**AUTHORISED AGENTS AND DISTRIBUTORS FOR JEAN NIEL PRODUCTS,
PERFUMERY COMPOUNDS AND RAW MATERIALS**

DEALERS IN

A Indian Products

- | | |
|-------------------|----------------------|
| 1 Citronella Oil | 8 Virgin Coconut Oil |
| 2 Lemon Grass Oil | 9 Petitgrain Oil |
| 3 Palmarosa Oil | 10 Rosemary Oil |
| 4 Geranium Oil | 11 Cedarwood Oil |
| 5 Basil Oil | 12 Tea Tree Oil |
| 6 Eucalyptus Oil | 13 Saffron RC |
| 7 Tagete Oil | 14 Neroli Oil |

B Indonesian Products

- 1 Patchouli - Sulawesi Minimum 30% & Minimum 27%
- 2 Vetiver Oil

C Italian Products

- | | | |
|----------------|--------------|--------------------------------------|
| 1 Bergamot Oil | 3 Orange Oil | 5 Yellow, Red and Green Mandarin Oil |
| 2 Lime Oil | 4 Lemon Oil | |

D Bulgarian Products

- 1 Rose Water Edible (water soluble) 100% pure and natural
- 2 Rose Oil 100% pure and natural

E Specialised Quality of

- | | | |
|-----------------------|-------------|-------------------|
| 1 Precious Wood Extra | 2 Civet RCO | 3 Osmanthus T ABS |
| 4 Cardamom 347 | 5 Ambreine | 6 Castoreum Base |
| 7 Castoreum T ABS | | |

F Australia

- 1 Tea Tree

G Madagascar

- 1 Vanilla Beans - Green and Black

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- Melissa Oil
- Pine Oil
- Juniper Berry Oil
- Juniper Needle Oil
- Zdravets Oil
- Rose geranium Oil
- German Chamomile Oil
- Roman Chamomile Oil
- Milfoil Oil
- St. John's worth Oil
- Helichrysum Oil
- Loverage Oil
- Bay leaf Oil
- Thyme Oil
- Spruce Oil
- Abies Alba Oil
- Basil Oil
- Rose Floral Water
- Lavender Floral Water
- Melissa Floral Water
- Pine Floral Water
- Juniper Berry Floral Water
- Juniper Needle Floral Water
- Zdravets Floral Water
- Rose geranium Floral Water
- German Chamomile Floral Water
- Roman Chamomile Floral Water
- Milfoil Floral Water
- St. John's worth Floral Water
- Helichrysum Floral Water
- Loverage Floral Water
- Bay leaf Floral Water
- Thyme Floral Water
- Spruce Floral Water
- Abies Alba Floral Water
- Basil Floral Water

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Product	Common Synonym	CAS No.
2 Isobutyl Quinoline	-	93-19-6
2 Methyl Quinoline	Quinaldine	91-63-4
6,8 Secondary Butyl Quinoline	-	65442-31-1, 67634-06-4
6 Methyl Quinoline *	Para Methyl Quinoline	91-62-3
6 Secondary Butyl Quinoline	Pyralone	65442-31-1
Ambrether	Kephalis	36306-87-3
Diphenyl Methane	-	101-81-5
Fructose *	Apple Ketal, Applitone	6413-10-1
Methyl Benzoate *	-	93-58-3
Methyl Phenyl Acetate *	-	101-41-7
Muguet Carbinol *	Dimethyl Phenyl Ethyl Carbinol	103-05-9
Neo Jasminoid	Projasmone P, Fleuromone	137-03-1
Phenyl Ethyl Iso Amyl Ether *	Anther, Pommerol	56011-02-0
Veticone	Vetikon	7403-42-1
Amyl Vinyl Carbinol *	Matsutake Alcohol	3391-86-4
Amyl Vinyl Carbinyl Acetate *	Matsutake Acetate	2442-10-6
Green Acetal	Heptaldehyde ethylene glycol acetal	1708-34-5
Neo Greenal *	Heptanal propyleneglycol acetal	4351-10-4
Penta Sandal	Iso Mohanol	68480-04-6
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Editor's Note

While life goes on the old classic cannot be forgotten because they have left a mark on our industry. The series article "Aromagraphia" appeared in the FAFAI Journal issue of 1982 and 1983 journal. The following article is first in the series. The remaining part will be published in coming issues.

Rishabh Kothari -
Editor

It is intended that this heading will feature a regular series of short articles giving personal impressions of recently developed synthetic "aromatic" materials which have achieved wide acceptance in international perfumes and flavours. The explosion in output of such synthetic aromatics during the last few decades has been phenomenal, as a glance at any trade journal will show. Some have proved to be a "nine-day wonder" having failed to pass the test of time. Others have offered the perfumer or flavourist new avenues in creation, thereby changing the speciality from a novelty to an accepted ingredient.

The task of selecting materials for such a discussion is formidable and inevitably the reader will be able to identify omissions. However, the intention will be to highlight the more important aromatics in terms of their creative value and usage spectrum.

One of the most valuable groups of basic floral odours is **Jasmin**. Very few sophisticated perfumes can be made without some Jasmin element, however small. Several popular fruit flavours also benefit by the addition of a little Jasmin Absolute, a skill which was introduced by the early French perfumers.

At present, it seems that the most useful new commercial chemicals of this group are ester or alkyl derivatives of cyclopentanone/cyclopentenone. The esters i.e jasmonates impart fruity top-note characters and possess a remarkable diffusivity which is not fully appreciated until used in blends. The 2-alkyl cyclopentanones, on the other hand, are more nutty/peachy and in many respects resemble the general odour characteristics of the C₉-C₁₂ alkyl lactones without their persistence.

Jasmonates

Methyl Jasmonate (2 Pentenyl cyclopentanone) 3-acetic acid methyl ester. This has a warm, soft floral jasmin character with medium persistence. It is one of the more important ingredients responsible for the characteristic odour of natural jasmin. It was probably the odour for which amyl cinnamic aldehyde was originally used as an artificial substitute, since methyl jasmonate has certain olfactory connotations of the latter chemical. It is very valuable in cream perfumes where gentleness and discretion are important, and harsh notes are unacceptable. Small quantities of this material in exotic florals such as champaca or ylang give warmth and life.

Methyl jasmonate also provides a naturalness to strawberry flavours and in cases where "nature identical" requirements obtain, this material has a definite "plus".

Methyl Dihydro Jasmonate : Saturation of the side chain gives much more lift and diffusiveness while at the same time imparting a general florality which has given this aromatic a versatility beyond all original expectations. It blends extremely well, not only with Jasmin bases, but also with other floral, citrus and cologne notes. It is worth testing out in accorded at 5, 10 or 15% with bergamot, lavender, linalyl acetate, inonyl acetate, etc.

Certainly the discovery of methyl dihydro Jasmonate forms one of the milestones in the development of synthetic perfumery chemicals and its use has yet to be fully exploited. One wonders what would be the effect on odour of varying the length of either side chain or introducing different unsaturation?

Alkyl Cyclopentanones : Chemically the examples given are all substituted at the 2-position of the cyclopentanone

ring, the side chain generally ranging from the C5 to C7. But the number of possible combinations is enormous in this group and there is considerable potential here for the organic chemist.

Broadly speaking the longer and more saturated the side chain the greater are the fatty and fruity notes, while the shorter unsaturated side chain tends towards a stronger nutty character. In most cases the cyclopentanones appear to have more strength and volume of odour than the jasmonates, but this tends to be reduced by saturation. Their principal applicational advantage is in their odour and colour stability in a wide range of products and pH conditions.

Cis-Jasmone : This is the only naturally occurring member of the group used and may be regarded as the father of the range. It has a pronounced walnut character when smelled in the concentrated state, but in high dilution imparts a diffusive sweet floral jasmine note to floral bouquets. Traces are also very important in good Strawberry flavours. In all cases therefore, it is best used for blending in 10% or 1% dilutions.

n-Pentyl Cyclopentanone : This has a similar odour to cis-jasmone but, by saturation of the ring and side chain-, warmth and depth of odour have been sacrificed. These have been replaced by greater impact and lightness making the ingredient more applicable to top notes. Although its diffusivity suggests that accorded with the jasmonates would be interesting, one should be careful not overdose as this could result in a slight harsh fattiness to the blend.

2,5,5, -Trimethyl n-Pentyl Cyclopentanone : Additional ring substitution gives a more pronounced fruitiness particularly in the area of peach and apricot. Indeed, blends with undecalactone, for example, give a natural peach skin character which is difficult to achieve by other means. This is a very interesting new material and could have wide applications particularly in products with high pH.

n-Hexyl/Hexylidene Cyclopentanone : The hexyl cyclopentanone is slightly more fruity than the n-pentyl derivative and has a dry green florality. This makes it more suitable for herbal creations in which respect it is a promising new component of men's fragrances.

It is a much lighter and less persistent aromatic than the corresponding material with an unsaturated ring or side chain. The latter are well-established materials and sold under various trade names such as Iso Jasmone, Dihydro Jasmone and Jasmalone. Some of them are unfortunately reported to have slight sensitization properties and in consequence have found disfavor in certain areas of perfumery.

As said earlier, the field is wide open for the organic chemist to produce many new useful substituted cyclopentanones. Meanwhile the perfumer and flavourist should certainly not neglect the more important specialties already on the market of which the above represent some of the most valuable innovations so far.

A NOTE ON ODOUR DESCRIPTIONS

The problem of accurately describing the odour of a material is enhanced when dealing with distinct chemical bodies. Even experienced perfumers, who are trained to identify, recognize and classify odour types (e.g "floral", "fruity", "woody") do not always agree with each other when describing the odours of "aromatic" chemicals. Attempts have been made to standardize and internationalize perfumery odour descriptions, but so far without much success.

Even greater confusion arises where attempts are made to relate odour and chemical structure. Many of the publications in the literature are written by chemists with little formal basic perfumery or flavour training, and consequently the odours described and the conclusions drawn are often unreliable.

For example, a chemical may be said to smell of roses merely because its odour is similar to that of 4-methyl-2- (2-methyl-1-propenyl) tetrahydropyran which is found in Bulgarian rose oil and is commercially known as "rose" or "geranium" oxide. However, its true odour may be better described as musty, petroleum or a gasoline-like.

The point is, however, that we must first be clear in our own minds whether we are attempting to describe :

- a) An "intrinsic" or true odour or
- b) An "applied" odour, i.e an odour effect

In the first case, if the average layman with a reasonable sense of smell was asked to describe the odour of rose oxide he would probably not find it floral at all, but would use some less pleasant descriptive terms such as "petrol". He would have no prior knowledge of the occurrence or use of this material. He would make an intrinsic odour appraisal. The applied odour description, on the other hand, identifies a use or occurrence of the chemical and is based on some degree of pre-knowledge. This implies a specific use for the material. In this case, our example material can now be correctly described as "rose" or "geranium" because it is an integral if very small part of the rose odour.

Chemicals given such applied odour descriptions have frequently been originally isolated from a specific essential oil and, although they may subsequently be found in many other completely unrelated oils, their odour type is often

branded by this name association with the original oil. The assumption is erroneously made that, because a chemical is an important olfactory constituent of an oil or absolute, its smell may consequently be described with the name of the oil.

Sometimes new chemicals are given trade names which describe their perfume application rather than their true odour, and these become their trivial names. For example, "Musk Bauer", the original name given to the first nitromusks could hardly be described as smelling like natural musk. Its exalting effect in perfumes, on the other hand, was similar to that of musk and, in blends with some other chemicals such as indol, it produced a musk-like animalic impression.

It can therefore readily be seen that much confusion and false conclusions can arise by basing relationships between odour and structure on applied odour descriptions. Much of the published material on this subject should be treated with extreme caution.

Another serious problem arising from our lack of standardized odour descriptions is the subjectiveness of the operator. The detector (i.e the nose) might be efficient, but the word or words given in response to the sensations received may vary considerably with the experience and training of the observer. Normally words of association with natural materials are used and therefore the accuracy of the odour description depends on the extent of olfactory knowledge of the observer. Here again, this can be extremely varied and can sometimes result in unreliable published information. It is indeed

unfortunate that perfumers cannot gradually develop a series of international words to describe basic odours analogous to words used for colours such as red, blue and yellow, none of which are known word associations.

Finally, reported odour descriptions are not infrequently based on the appraisal of impure chemicals. It is therefore the impurity or the impurity-chemical blend which may be evaluated and not the principle constituent. One would be unwise to rely too heavily on such published odour descriptions unless accompanied by some indication of the quantitative purity of the material.

The foregoing problems are being compounded by the increasing numbers of perfumery and flavour chemicals appearing on the market, and the enormous advances being made in the instrumental analysis of natural materials.

Meanwhile, in the absence of a logical system of descriptive classification and instrumentalized odour measurement, one generally has to rely on the knowledge of experienced perfumers or flavourists.

In the present series of articles, the odours described are intrinsic smell impressions. They are personal descriptions taken from the view point of a perfumer/flavourist. When describing a group or series of chemicals having closely allied structures, one is tempted to relate observed odour variations to small structural changes. However, it must always be borne in mind that these odour observations, being subjective, are fallible, and one cannot apply to them too many general conclusions in respect of odour structure relationships.

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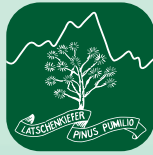
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All About Black Gold

APK Padmanabhan

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Black pepper (*piper nigrum* Linn) is known as black gold. Christopher Morley called pepper "The King of Spices". Indeed black pepper is most widely recognized condiment all over the world. It is believed that Cleopatra was mad of pepper and preserved and concealed huge quantity of pepper. Her love for black pepper was revealed only when Vasco Da Gama landed at Calicut harbor! The history of spices especially black pepper is a story of adventure, exploration, conquest and fierce navel rivalry!



Black pepper (Hindi: Kali Mari, Gujarat: Kala Mari, Marathi: Mire, Kalimirch) is indispensable and inseparable item in the culinary art of cooking.

Black pepper is a prime commodity and India is exporting huge quantity to all over the world. However in recent times there is a stiff competition from Vietnam, Srilanka, Indonesia, Brazil and Malaysia. Efforts are being made to bring more areas under cultivation of pepper and development of new pepper vines to yield more production. Cultivation of pepper is already begun in Andhra Pradesh, Odisha, Arunachal Pradesh, Assam, Manipur and Andaman, and the results are very encouraging. However in the present scenario the increase in the production of pepper alone is not sufficient but to convert value added products from pepper is a need of an hour.

1. Pepper oil

Pepper oil is an aromatic volatile component, colorless to slight green liquid with characteristic odor of pepper processed by steam distillation / CO₂ extraction / solvent extraction. It a mixture of hydrocarbons, monoturpines,



sesquiterpines and small amount of oxygenated compounds.

The oil extracted by CO₂ is no doubt having excellent flavor and quality; however, manufactures mostly prefer steam distillation due to huge investment of machineries and maintenance cost. Physico - chemical properties are evaluated by gas chromatographs and spectrophotometer characteristics, ultimately judged by sensory evaluation. Sometimes the oil is modified to meet tailor made quality for the end users.

2. Pepper Oleoresin

Oleoresin is prepared by extracting deoiled pepper or fresh pepper powder by suitable solvent like acetone / ethyl acetate etc and the micelle is concentrated under vacuum to obtain a semi solid material. Oleoresin represent the true essences of the spice with aroma, taste and color principles in the most concentrated form.



Further oil is added in the oleoresin and homogenized to prepare a free flowing liquid of desired quality.

E.O.A Specification

Pepper oil..... 30ml/100gm in oleoresin
Piperine content in oleoresin 40% Minimum

YEILD COMPARISON

Commercial Black Pepper		Immature Black Pepper
Volatile Oil	2-3 %	4-5 %
Resin	6-8 %	9-12 %
piperine	45-50 %	50-56 %

The above tables indicate that the extraction of oil and resin from immature black pepper is more attractive and profitable. Separation of light pepper from commercial grade pepper using with perforated sieves also will increase the extraction yield and bold pepper fetch enhanced price. Even though there is no much commercial importance for "pollu" and pinheads of black pepper this could be extracted for fine tuning and blending of oil and oleoresin to adjust the active principle as required. Pure piperine crystals are also prepared from pepper resin. To improve the appearance of dried black pepper is done socking green pepper in hot water for 5 to 10 minutes and then sun drying

3. Products from Green pepper/Black pepper

- A. Green pepper oleoresin
- B. De-hydrated green pepper
- C. Frozen green pepper
- D. Tender green pepper in brine
- E. White pepper from green pepper
- F. White pepper from black pepper by socking and bleaching methods
- G. Decortation process
- H. pepper powder/Flakes
- I. Pure piperine isolation

Uses of pepper oil and oleoresin

1. Food flavoring
2. Sausages
3. Canning meat and fish
4. Soups
5. Beverages
6. Biscuits & confectionary
7. Liquors
8. Perfumery
9. Cosmetics
10. Medicines
11. Soaps
12. Pickles
13. Insecticides
14. Pepper spray etc.,

CONCLUSION:

The life style has changed a lot, also the food habits in the modern world has undergone drastic changes. Many consumer products are flooding in the market. Therefore the demand for value added products from pepper will definitely increase in future.

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Su	M	Tu	W	Th	F	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

MARCH						
Su	M	Tu	W	Th	F	Sa
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JULY						
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29	30	31				

SEPTEMBER						
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OCTOBER						
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28	29	30	31			

NOVEMBER						
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DECEMBER						
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23	24	25	26	27	28	29

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August	3-5, 2018	Event : International Congress & Expo – Navigating Future of Essential Oils organized by EOAI Location : Sheraton Grand Hotel & Convention Centre, Whitefield, Bengaluru Contact : E-mail : eoairdcenter@gmail.com ; Website : www.eoai.co.in
August	9-10, 2018	Event : 5 th Annual Food Quality & Safety Congress Location : Taj Vivanta, Dwarka, New Delhi Contact : 91-22-66089643; Website : www.foodquality-safetyindia.com
August / September	31 st Aug – 2 nd Sept, 2018	Event : INDIA FOOD EX 2018 - International Exhibition on Food & Beverage Products Location : BIEC, Bangalore Contact : E-mail : indiafoodex@gmail.com ; Website : www.indiafoodex.com
September	27-29, 2018	Event : Anutec Ingriends India Location : Bombay Convention & Exhibition Centre, Goregaon, Mumbai Contact : Mr. Milind Dixit ; Tel : 91-22-28715200 ; E-mail : m-dixit@koelnmesse-india.com ;
October	1-2, 2018	Event : Cosmetic Ingredients & Packaging India (C.I.P.I) Location : Bombay Convention and Exhibition Centre, Goregaon, Mumbai Contact : 91-22-61713241 E-mail : Hemant.rajput@ideas-exchange.in
October	4-6, 2018	Event : Indiachem 2018 Location : Bombay Exhibition Centre, Goregaon, Mumbai Contact : E-mail : nachiket.basole@ficci.com Website : www.indiachem.in

FEBRUARY						
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Every effort is made to ensure that the above information given is correct. However, members are advised to recheck the dates with organizers for any change in schedule.



CALENDER OF EVENTS

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International

June	12, 2018	Event : Fragrance Foundation Awards Location : New York City Contact : Web : www.fragrance.org
June	13-15, 2018	Event : In Cosmetics Korea Location : Seoul, South Korea Contact : Reed Exhibitions ; Tel : 91-22-67716617 E-mail : northamerica.in-cosmetics.com
June	27-29, 2018	Event : 19 th International Food, Food Processing & Beverage Fair Location : Kula Lumpur Convention Centre, Kula Lumpur, Malaysia Contact : Tel : 91-9911046828 E-mail : sales@allianceexpo.in
September	9-13, 2018	Event : IFEAT Conference Location : Columbia, South America Contact : Web : www.ifeat.org
September	18-21, 2018	Event : Bioflavour Conference Location : Frankfurt, Germany Contact : Web : www.dechema.de
October	3-5, 2018	Event : Food Ingredients Asia Location : Jakarta International Expo, Indonesia Contact : Web : www.figlobal.com/asia/indonesia
October	26-28, 2018	Event : International Fragrant Industry Expo Location : Haikou, Hainan, China Contact : E-mail : 2982960015@qq.com
November	21-23, 2018	Event : Anufood China Location : China National Convention Centre, Beijing, China Contact : E-mail : anufoodchina@koelnmesse.cn Website : www.anufoodchina.com

FEBRUARY						
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Curcuma oil

CURCUMA ZEDOARIA OIL

Zedoary (botanical name *Curcuma zedoaria*) is also known as white turmeric. This ancient spice is closely related to the normal turmeric and is indigenous to India as well as Indonesia. In the sixth century, this spice was introduced to Europe by Arab traders and during the middle ages zedoary became very popular throughout the continent. However, these days the zedoary is very rarely used in the West, as it has been largely substituted by ginger. In India, people use zedoary as a substitute of arrowroot and in local perfumes. People in India also use zedoary in rituals performed during festivals.

BOTANICAL NAME	CURCUMA ZEDOARIA
COMMON NAME	ZEDOARY OIL, ZEDOARIA ESSENTIAL OIL, CURCUMA ZEDOARIA,
PLANT PARTS USED	RHIZOMES
EXTRACTION METHOD	STEAM DISTILLATION
COLOR & ODOR	DARK BROWN
PLANT FAMILY	ZINGIBERACEAE
AROMA	WARM-SPICY, WOODY & CAMPHORACEOUS CINEOLIC ODOR

Specific Gravity -:0.89900 - 0.93130

Refractive Index -:1.39000- 1.48200

Optical Rotation -: 0.75° - 8°

CONSTITUENTS

Curzerenone (22.3%),1,8-Cineole (15.9%) ,Germacrene (3.0%),Camphene (5.03%),Limonene (4.80%) and Camphor (4.21%)

HEALTH BENEFITS OF CURCUMA ZEDOARIA OIL

CURCUMA ZEDOARIA OIL is very good for our bodies. Curcuma zedoaria oil has a wide range of chemical constituents that include tianin, starch, curcumin, essential oil, sugar, saponins, resins, flavonoids, until the toxic protein that has the capability to prevent cancer cell growth. Listed below are few of the health benefits of using Curcuma zedoaria oil in your daily life .

DIGESTIVE AID

For millennia, Curcuma zedoaria oil has been used to treat digestive problems, mostly in the gastrointestinal tract. The herb's essential oil and the herb itself are beneficial in the treatment of colic, indigestion, spasms, loss of appetite, infestation of worms, flatulence, irregular bowel movement, and tastelessness. It is also a natural aid in preventing stress-related ulceration.

RESPIRATORY PROBLEMS

In Ayurveda, an excess of kapha dosha is due to fluids like phlegm and mucus building up in the lungs and other areas of the body. Phlegm and mucus block the nasal passages and lead to breathing difficulties and respiratory disorders like cold, asthma, and cough.

RELIEVES INFLAMMATION AND PAIN

Curcuma zedoaria oil is an anti-inflammatory agent that helps to treat inflammation, wounds, and other skin ailments. It was used in Indonesian folk medicine to treat inflammatory bowel disease (ulcerative colitis). It was also utilized to protect asthmatic patients' lungs by limitation inflammatory mediators' release during short-term therapy.

The diuretic properties of zedoary support the elimination of the body's toxic substances and excess fluids, particularly in the joints. If there is no detoxification, it may lead to inflammation and pain in cases of arthritis and rheumatism. Curcuma zedoaria oil also reduces the body's temperature during fever by purging infectious microbes and promoting sweat.

ANTI-INFLAMMATORY AND PAINKILLER PROPERTY

Curcumenol, a compound obtained from this rhizome, shows painkiller activity better than aspirin. Extracts of the rhizome are proven to have painkiller activity in model of abdominal

spasms and compounds- curcumenol and dihydrocurdione contribute to its analgesic activity.

ANTI-ALLERGIC ACTIVITY

Oils of Curcuma zedoaria have moderate to good antioxidant activity; they search free radicals and chelate heavy metal ions. Curcuminoids present in extracts of Curcuma zedoaria exert anti-allergic activity and are found to be therapeutic in skin related allergic reactions. Curcumin shows the highest anti-allergen activity and this is mediated by inhibiting activity of inflammatory proteins and preventing release of chemicals that initiate allergic reactions.

ANTIBACTERIAL AND ANTIFUNGAL

Turmeric is believed to reduce the amount of microbes in the mouth with the same results with mouthwash products on the market. In addition, extracts from Curcuma zedoaria oil are also believed to inhibit fungal activity in the human body.

ANTINYERI MEDICINE

Curcuma zedoaria oil was believed to be used as an analgesic or medicine to relieve pain. However, this analgesic effect depends on how many doses you use.

ULCER MEDICINE

Flour from the root of Curcuma zedoaria oil is thought to reduce the amount and acidity of the stomach fluid so it can be used as a tukak medicine. These benefits still require clinical research in humans.

ANTI-TOXIC

Curcuma zedoaria extract can also be an antidote or a snake bidder. This can happen because curcuma zedoaria can inhibit the activity of snake venom.

ANTI-CANCER

Curcuma zedoaria is believed to play an important role in the inhibition of cancer metastases or the spread of cancer from an organ to other organs. But, its effectiveness to overcome cancer still requires further research.

Antioxidants Essential oils of curcuma zedoaria are supposed to reduce the impact of certain free radicals.

Curcuma zedoaria is also believed to be beneficial for the treatment of symptoms of arthritis, asthma, anti-rheumatism, and diuretic medications.

LOWERING BLOOD SUGAR LEVELS

Eating curcuma zedoaria is believed to lower blood sugar levels. However, both still need medical research to prove it.

DRUGS FOR WOMEN

Curcuma zedoaria is suspected to treat female complaints like leucorrhea, relieve pain during menstruation, and menstruation expedite. However, this has not been medically proven and still needs further research.



TRADITIONAL USES AND BENEFITS

- It is used traditionally for the treatment of menstrual disorders, dyspepsia, vomiting and for cancer.
- Rural people use the rhizome for its rubefacient, carminative, expectorant, demulcent, diuretic and stimulant properties.
- Root is used in the treatment of flatulence, dyspepsia, cold, cough and fever.
- It can inhibit cancer cell growth.
- It can narrow female organs.
- It may help treat itching of the female.
- It can strengthen lust.
- It is useful as antipyretics (fever).
- It is used to treat pain shortness of breath (asthma).
- Curcuma zedoaria is used to treat inflammatory disease of the respiratory tract (bronchitis).
- It may be useful as an antitoxin (antidote).
- It can help reduce abdominal fat.

CULINARY USES

- In Thai cuisine it is used raw and cut in thin strips in certain Thai salads.

- It can also be served cut into thin slices together with other herbs and vegetables with certain types of nam phrik.
- In Indian cuisine fresh curcuma zedoaria is also used as an ingredient to popular dishes.

REFERENCES:-

- ARCTANDER, STEFFEN FROM – (PERFUME AND FLAVOUR MATERIALS OF NATURAL ORIGIN) BRAIN M. LAWRENCE FROM – (ESSENTIAL OILS) CHOPRA, R.N, NAYAR S.L., GLOSSARY OF INDIAN MEDICINAL PLANTS (COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH), (WEALTH OF INDIA), DR. K.M. NADKARNI'S (INDIAN MATERIA MEDICA)
- W.A.POUCHER FROM – (POUCHER'S PERFUMES, COSMETICS AND SOAPS)
- S.N.MAHINDRU FROM – (INDIAN PLANT PERFUMES)
- AND PERSONAL DISCUSSION WITH PROFESSOR DR. SUDHA JAIN, DR. SHAKTI SHUKLA (PRINCIPAL DIRECTOR FFDC KANNUJ) & RAKESH LAB ETC.



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- Clove Leaf Oil 70 to 90%
- Clove Bud Oil
- Eugenol 99% & 99.5%
- Iso Eugenol
- Methyl Eugenol
- Methyl Iso Eugenol



- Di Hydro Eugenol,
- Eugenol Acetate
- Iso Eugenol Acetate
- Caryophyllene 65%-95%
- Caryophyllene Acetate

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Patchouli Oil, Geranium Oil

ESSENTIAL OILS AND ISOLATES

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- Aniseed Oil
- Ginger Oil
- Black Pepper Oil
- Citronella Oil- Indian



- Dill Oil
- Coriander Oil
- Geraniol Ex – Palmrosa
- Ajowan Oil

- Orange Oil
- Orange Oil Folded (5x, 10x and 20x)
- D Limonene
- Lemon Grass Oil
- Cinnamon Leaf Oil
- Cardamom Oil



- Cumin Oil
- Celery Oil
- Fennel Oil
- Linalyl Acetate Ex-Mentha Citrata
- Geranyl Acetate Ex – Palmrosa
- Citronella Oil Java

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- Peppermint Oil (Ex Mentha Arvensis Oil)
- Peppermint Oil Blends (Arvensis + Piperita)
- Peppermint Oil (ex DMO)
- D M O
- Menthones (70/28, 80/20, 90/10 & 95/5)
- Mint Terpenes
- Menthyl Acetate
- Spearmint Oil
- L Limonene (60 to 98%)
- L Carvone 70 to 99%
- L Menthol (Flake, Rice & Bold Crystals)
- CIS 3 Hexanol Natural 95% & 98%
- CIS 3 Hexenyl Acetate Natural 98%



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- Eucalyptol

Budaun Plant : Khasara No. 8,9,10 & 126
Village Gathona, Ujhani Budaun Rd - 243639
Uttar Pradesh ,INDIA



MARKET INDICATORS

(Local Market Information Indicative Prices as on 28.05.2018)

SR.NO.	NAME OF THE ITEM	PRICE (RS.)
1	A.C.H.P.	950
2	ALDEHYDE C - 10	500
3	ALDEHYDE C - 11	1450
4	ALDEHYDE C - 12 LAURIC	500
5	ALDEHYDE C - 12 MNA	1100
6	ALDEHYDE C - 18	1200
7	ALDEHYDE C - 8	650
8	ALDEHYDE C - 9	1250
9	ALLYL AMYL GLYCOLATE	650
10	ALLYL CAPROATE	600
11	ALPHA DAMASCONE	7000
12	AMBROXAN / AMBERMOR -EX (AROMOR)	35000
13	AMYRIS OIL	8500
14	ANETHOL SYNTHETIC	850
15	AQUAMOR/ CALONE / WATER MELON KETONE	12000
16	ARMOISE OIL	9500
17	BACDANOL	1450
18	BALSAM PERU	1500 / 2500
19	BALSAM TOLU	3700
20	BENZYL SALICYLATE	325
21	BERGAMOT OIL	13500
22	BETA DAMASCONE	13500
23	BLUE CHAMMOMILE OIL	150000
24	BOISAMBRENE FORTE / AMBERWOOD F	1600
25	BRAHMANOL - F	5000
26	BUCCOXIME	16000
27	BUCHU OIL BETULINA	40000
28	C.P.D/CYCLOPENDECANLIDE	2800
29	CASSIA OIL	3500
30	CEDAR LEAF OIL (THUJA OIL)	14000
31	CEDARWOOD OIL (TEXAS)	2100
32	CEDARWOOD OIL HIMALYAN RECTIFIED	700
33	CEDARWOOD OIL VIRGINIA	2400

SR.NO.	NAME OF THE ITEM	PRICE (RS.)
34	CEDRYL ACETATE LIQUID	925
35	CINNAMIC ALCOHOL	550
36	CINNAMIC ALDEHYDE	280
37	CINNAMON BARK OIL	17000
38	CINNAMON LEAF OIL	1550
39	CIS 3 HEXENOL	2600
40	CIS 3 HEXENYL ACETATE	2600
41	CIS 3 HEXENYL SALICYLATE	1900
42	CIS JASMONE	12000
43	CITRONELLA OIL	1300
44	CITRONELLOL	1600
45	CLARY SAGE OIL	15000
46	CLOVE OIL REC 85%	1450
47	CLOVE TERPENES	350
48	COGNAC OIL	45000
49	CORIANDER LEAF OIL	14000
50	CORIANDER SEED OIL	8000
51	CYCLAMEN ALDEHYDE	1250
52	CYCLOGALBANATE/ ISO ANANATE	1200/2100
53	CYRESS OIL SPANISH	5500
54	D-LIMONENE (ORANGE TERPENES)	730
55	DAMACENONE	60000
56	DIHYDROMYRCENOL	NA
57	DIMETOL	1500
58	DMBCA	700
59	ETHYL 2 METHYL BUTYRATE	750
60	ETHYL MALTOL	2300
61	ETHYL VANILLIN CHINA	1100
62	EUCALYPTUS OIL 60 %	2200
63	EUCALYPTUS OIL 80 %	2800
64	EVERNYL	5500
65	FENNEL SEED OIL	3500
66	FIR NEEDLE OIL SIBERIAN	4500
67	GALAXOLIDE - DEP 50%	440 / 525
68	GALBANUM OIL	22000



MARKET INDICATORS

Local Market Information Indicative Prices as on 28.05.2018)

SR.NO.	NAME OF THE ITEM	PRICE (RS.)
69	GAMMA DECA LACTONE	925
70	GAMMA DODECA LACTONE	2500
71	GAMMA METHYL DECA LACTONE	2600
72	GAMMA NONA LACTONE (ALD C-18)	750/800
73	GAMMA UNDECA LACTONE (ALD C-14)	900
74	GERANIOL	1600
75	GERANIUM OIL CHINESE	26000
76	GERANIUM OIL EGYPTIAN	8000
77	GRAPEFRUIT OIL PINK	10000
78	GRAPEFRUIT OIL WHITE	12000
79	GUAIACWOOD ACETATE	3400
80	GUAIACWOOD OIL	2000
81	HEDIONE / MDJ	625 / 725
82	HELITROPIN	3500
83	HERCOLYN - D / FORALYN	575 / 625
84	HEXYL CINAMIC ALDEHYDE	500
85	HEXYL SALICYLATE	350/500
86	HYDROXY CITRONELLOL	2700
87	INDOLE	1300
88	ISO DAMASCONE	16000
89	ISO E SUPER	475
90	ISO EUGENOL	1850
91	ITD ALCOHOL / OXO C13	450
92	JUNIPER BERRY OIL	6000
93	LABDANUM ABSOLUTE	7500
94	LAVANDIN OIL GROSSO	3600
95	LAVENDER OIL BULGARIAN	14000
96	LAVENDIN OIL ABRALIS	6500
97	LEMON OIL C.P.	5500
98	LIME OIL CP	3500
99	LIME OIL DISTILLED MEXICAN	5600
100	LINALOOL	1600
101	LINALYL ACETATE	1700
102	LYRAL/ KOVYRAL	1150
103	LYSMERAL	625 / 650
104	MALTOL	1450
105	MANDARINE OIL GREEN	12000

SR.NO.	NAME OF THE ITEM	PRICE (RS.)
106	MARJORAM OIL	8500
107	METHYL BETA NAPHYL KETONE(ORANGE CR)	900
108	MUSK AMBRETTE	1350
109	MUSK KETONE	1700
110	MUSK T	650
111	MUSK XYLOL	550
112	MYRRH RESINOID	7500/ 8000
113	MYSOLENE SANDAL	4800
114	MYSORE ACETATE	3000
115	NEROLI OIL NATURAL	250000
116	NUTMEG OIL PURE INDIAN	2800
117	OAKMOSS ABSOLUTE	18000/24000
118	OPOPONAX RESINOID	5000 / 5500
119	ORANGE OIL COLDPRESSED BRAZIL	920
120	OREGANUM OIL	8500
121	PADMA	850
122	PATCHOULI OIL	3800/4500
123	PETITGRAIN OIL	6600
124	PHENYL ACETALDEHYDE 100%	1000/1800
125	PHENYL ETHYL ALCOHOL	350
126	PIMENTO BERRY	13500
127	RASPBERRY KETONE	1500
128	RESINOID LABDANUM	1850
129	RESINOID OAKMOSS	1400
130	ROMAN CHAMMOMILE OIL	110000
131	ROSE OXIDE INACTIVE	3900
132	ROSEMARY OIL SPANISH	6000
133	SANDENOL CHINA / ICCH	700
134	TONALIDE PFW	2200
135	VANILLIN CHINA	825
136	VERTOFIX COEUR CHINA	1600
137	VERTOFIX METHYL CEDRYL KETONE-CHINA	1350
138	VETIVERYL ACETATE	56000
139	VETIVER OIL HAITI	36000

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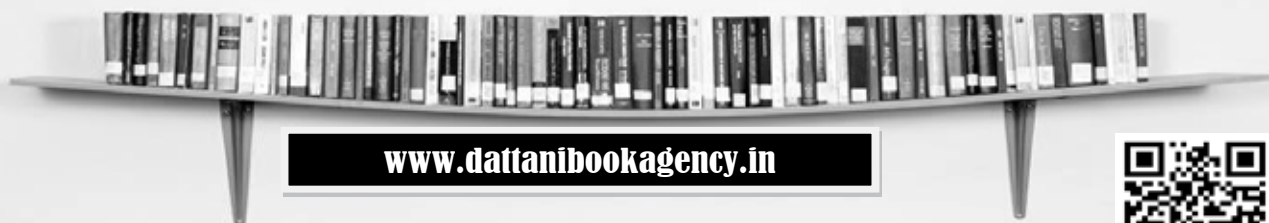
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