### Citronella (Cymbopogon nardus) Oil Extraction

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<table>
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<tbody>
<tr>
<td>Capacity</td>
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<tr>
<td>Plant and machinery cost:</td>
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<tr>
<td>Working Capital</td>
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<tr>
<td>Rate of return (ROR)</td>
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<tr>
<td>Break Even Point (BEP)</td>
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<tr>
<td>TCI</td>
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<tr>
<td>Cost of Project</td>
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Citronella (Cymbopogon nardus) Oil Extraction. Profitable Essential Oil Extraction Business Ideas.

Extraction of Citronella Oil (Steam Distillation)

Citronella oil is an oil derived majorly from citronella grass, also called as Cymbopogon nardus. The cultivation of the grass requires rich moisture content and sunshine. The oil can also be derived from different cymbopogon species. The citronella oil is considered as one of the industrially important essential oil. This is owing to the key advantages of citronella oil such as flavour additive, fragrances in cosmetic and perfume industries. The citronella oil contains more than 80 components some of which are at high concentration in oil and functions as repellent property of oil. Some of the important components such as geranial, limonene and citronellal are considered to have desirable repellent characteristics.

Citronella oil is a prominent essential oil made from the extracts of a distinct species Cymbopogon plant. Stems and leaves of this species, commonly known as lemongrass, are used for making citronella oil extracts. The oil is primarily used as a source in production of perfumery chemicals such as citronellal and citronellol.

Citronella Oil is one of the important component in perfume manufacturing. Personal care products like soaps, household cleaners, and detergents use Citronella Oil due to its antiseptic characteristics. Flavouring capacity of Citronella oil is use in Alcoholic and non-alcoholic beverages, Baked products, Soft and hard candies, Gelatin and puddings, Frozen dairy. On medical grounds Citronella Oil is potent antifungal helps to reduce Aspergillus, Penicillium, and Eurotium fungi species that causes fungal infection in humans and animals.

Market Outlook

Growth of Citronella Oil Market primarily driven by extensive use in perfume and insect repellent industry. Germany, Spain and France are largest importer of Citronella Oil for perfume manufacturing. Mosquito repellent industry is growing tremendously attributed to rise in mosquito-borne diseases like malaria, dengue and global warming, which favors breeding of mosquitoes. Increase in health awareness is propelling fuel to use of mosquito repellent spray and lotions which automatically increasing demand for Citronella Oil.

The global market for citronella oil is mainly due to the growing demand of the perfumery and cosmetics industries. Lemongrass oil offers many remedies, including the control of anxiety and stress, the ability to eliminate insects and leeches from the body, etc. These are some of the factors that stimulate the global consumption of lemon grass oil. In addition, citronella oil has unique properties, such as olfactory and stable technical properties. These properties are extremely essential for industries such as perfumes, since they must incorporate essences of composition and suitable mixture, which in turn stimulate the world citronella oil market. However, the citronella oil substitute, such as citrus and turpentine synthetic eucalyptus isolates, could restrict the world market for lemongrass oil.

The global citronella oil market is primarily driven by the increasing demand from perfume and cosmetic industries. Citronella oil offers wide remedies some of which are anxiety and stress control, ability to eject bugs and leeches from body etc. Citronella oil prevents the spread of internal and external infections. These are some of the factors which is boosting the global citronella oil consumption. Furthermore, citronella oil has some unique properties such as distinctive olfactory and steady technical properties. These properties are highly essential for industries such as perfume to incorporate appropriate blending and compounding essences which in turn actually drives the global citronella oil market.

Top Key players of Citronella Oil Market:
- PT Karimun Kencana Aromatics
- Kanta-group
- VanAroma
The global essential oils market demand was 226.9 kilotons in 2018. It is projected to expand at a CAGR of 8.6% from 2019 to 2025. Robust growth of end-use industries such as food & beverage, personal care & cosmetics, and aromatherapy has translated into an upswing in the demand for the product.

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, and others. Orange oil segment accounted for the maximum revenue share in 2015 and is likely to consolidate its position during the forecast period, owing to its anti-inflammatory, antidepressant, and antispasmodic product characteristics. In addition, the food and flavor industry majorly uses orange oil due to its fresh smell and juicy flavor.

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 applications Food & beverages. Other applications, such as health & wellness, cleaning products where essential oil serves as sweet-smelling mixes, and healthy substitutes for synthetic drugs are anticipated to witness sustainable development in future. Based on geography, the market is categorized into North America, Europe, Asia-Pacific, and LAMEA.

The overall essential oils industry has seen significant growth in recent years. Changing consumer lifestyles, as well as rising disposable income of the consumers in the developing countries is stimulating the growth of this market. The rising consumer awareness about the ill-health effects of synthetic chemicals used for adding texture & fragrances and for increasing the aesthetic appeal of the food products and increased awareness about health benefits associated with the consumption of essential oils has contributed towards the growth of global essential oils market.

Essential Oils Market Major Players:
- Biolandes
- doTERRA International LLC
- Essential Oils of New Zealand Ltd.
- Rocky Mountain Oils, LLC
- Flavex Naturextrakte GmbH
- Farotti Srl
- Young Living Essential Oils
- Falcon Essential Oils
- H. Reynaud & Fils (HRF)
- India Essential Oils
- Sydney Essential Oil Co. Pty Ltd
- The Lebermuth Company, Inc.

Tags
#Citronella_Oil_Extraction, #Extraction_of_Citronella_(Cymbopogon_Nardus)_Essential_Oil, #How_to_Extract_Citronella_Oil, Citronella Oil, Extraction and Characterization of Essential Oil, Extraction of Oil, Extraction of Citronella Oil, Citronella Oil Uses, #Citronella_Oil_Manufacture, #How_to_Manufacture_Essential_Oils, Citronella Oil (Cymbopogon Nardus), How to Make Citronella Oil,
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