Spice Oil Extraction from Curry Leaves

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>500 Kgs./Day</td>
</tr>
<tr>
<td>Plant and machinery cost</td>
<td>13.00 Lakh</td>
</tr>
<tr>
<td>Working Capital</td>
<td>0.00 Lakh</td>
</tr>
<tr>
<td>Rate of return (ROR)</td>
<td>28.00 %</td>
</tr>
<tr>
<td>Break Even Point (BEP)</td>
<td>59.00 %</td>
</tr>
<tr>
<td>TCI</td>
<td>0.00 Lakh</td>
</tr>
<tr>
<td>Cost of Project</td>
<td>152.00 Lakh</td>
</tr>
</tbody>
</table>
Spice Oil Extraction from Curry Leaves (100% EOU)

Murraya koenigii, commonly known as curry leaf or kari patta in Indian dialects, belonging to Famil Rutaceae which represent more than 150 genera and 1600 species1 Murraya Koenigii is a highly values plant for its characteristic aroma and medicinal value. Curry leaves are a rich source of minor constituents, such as Ca, K, Mg, P, along with Fe, Mn, Se and Zn, in trace amounts. Toxic element (As, Cd, Hg and Pb) contents were found to be below USFDA limits. The mineral content of curry leaves are: Fe 152 to 158 mg/kg, Na 795 to 800 mg/kg, Mg 14 to 18mg/kg, Mn 96 to 98 mg/kg. According to the proximate analysis leaves of Murraya Koenejii consists moistures 63%, total nitrogen 1%, fat 6%, total sugar 14%, crude fiber 7% and ash 13%. The curry leaf (Murraya koenigii spreng) has 2.6% volatile essential oils (terpenes: beta caryophylline, beta gurjunene, beta elemene, bete phellandrene, beta thuajene and others). These oils in the curry leaf are sufficiently soluble in water and terpenes are lighter than water.

The global essential oil market size was valued at USD 3.36 billion in 2015 and is expected to witness an estimated growth rate of 9.0% from 2016 to 2024. Around 200 different types of essential oils are consumed all over the world annually, and the U.S. plays a major role in overall demand. Essential Oil Market is expected to reach $11.188 million by 2022, with a CAGR of 8.7% from 2016 to 2022. Essential oils, also known as volatile oils/aetherolea/ethereal oils, are derived from leaves, stems, flowers, bark, roots, or other parts of a plant. Which facilitates the development of new technologies and ensure a high quality product.

Few Indian major players are as under
- Concert Spices & Exports Ltd.
- Dabur India Ltd.
- Gangotri Oils & Agro Products Pvt. Ltd.
- Gulab Oil & Foods Pvt. Ltd.
- Khandelwal Edible Oils Ltd.
- Mahesh Edible Agro Oil Inds. Pvt. Ltd.

NIIR Project Consultancy Services (NPCS) is a reliable name in the industrial world for offering integrated technical consultancy services. Its various services are:
Pre-feasibility study, New Project Identification, Project Feasibility and Market Study, Identification of Profitable Industrial Project Opportunities, Preparation of Project Profiles and Pre-Investment and Pre-Feasibility Studies, Market Surveys and Studies, Preparation of Techno-Economic Feasibility Reports, Identification and Selection of Plant and Machinery, Manufacturing Process and or Equipment required, General Guidance, Technical and Commercial Counseling for setting up new industrial projects and industry. NPCS also publishes varies technology books, directory, databases, detailed project reports, market survey reports on various industries and profit making business. Besides being used by manufacturers, industrialists and entrepreneurs, our publications are also used by Indian and overseas professionals including project engineers, information services bureau, consultants and consultancy firms as one of the input in their research.