Production and Formulation of Pesticides from Neem (Azadirachta indica) Seeds & Leaves.

Neem based Pesticide Manufacturing Business.
Pesticides are chemical substances that are meant to kill pests. In general, a pesticide is a chemical or a biological agent such as a virus, bacterium, antimicrobial, or disinfectant that deters, incapacitates, kills, pests.

This use of pesticides is so common that the term pesticide is often treated as synonymous with plant protection product. It is commonly used to eliminate or control a variety of agricultural pests that can damage crops and livestock and reduce farm productivity.
The most commonly applied pesticides are insecticides to kill insects, herbicides to kill weeds, rodenticides to kill rodents, and fungicides to control fungi, mold, and mildew.

A pesticide is any substance used to kill, repel, or control certain forms of plant or animal life that are considered to be pests. Pesticides include herbicides for destroying weeds and other unwanted vegetation, insecticides for controlling a wide variety of insects, fungicides used to prevent the growth of molds and mildew, disinfectants for preventing the spread of bacteria, and compounds used to control mice and rats. Because of the widespread use of agricultural chemicals in food production, people are exposed to low levels of pesticide residues through their diets.
Neem is best known for its anti-aging properties. Due to its antioxidant properties, neem protects the skin from harmful UV rays, pollution and other environmental factors. The vitamins and fatty acids in neem improve and maintain the elasticity of the skin, reduce wrinkles and fine lines. This make you and your skin look rejuvenated and youthful.

Neem Pesticide / Insecticide formulation is a neem based botanical product that contains azadirachtin as an active ingredient. Azadirachtin is found to be very effective for over 600 species of insects.
Neem is a highly effective pesticide that once sprayed, will keep the insects at bay. It works in a variety of ways from killing all sucking and chewing insects, keeping insects at bay who refuse to eat the sprayed foliage and end up dying of starvation, as well as disrupting the sexual reproduction of insects so that their life cycle is both disrupted and ended.
Neem Insecticide is best among insecticides due to following properties:

1. Neem Pesticide is a natural product, absolutely non-toxic.
2. It is 100% bio degradeable and environment friendly.
3. It is completely safe for humans and beneficial insects like honey bee.
4. It can be mixed with other synthetic pesticide and also enhances their action.
5. It is effective for over 600 species of pests.
6. It is a broad spectrum insecticide.
Market Outlook

The demand of Neem products are increasing day by day. Agriculture sector is now becoming a major consumer of the neem products viz. Neem oil, neem cake and neem based pesticides. Being eco-friendly and natural source of phyto-chemicals and nutrients it is preferred to apply Neem manure and pesticide in agriculture especially in organic farming all over the world.
The coating of urea with Neem products has been given priority to minimize the losses of nitrogen. Government of India has recently allowed fertilizer firms to produce 100% Neem Coated Urea – a move aimed at helping farmers boost income & reducing subsidy bill by up to Rs. 6,500 crore. Government of India has done away with the cap on Neem – coated Urea & now it can be produced 100%. It is a win – win situation for all the players in the field- the industry, farmers & Neem seed collection Agencies.
India pesticides market stood at $2.6 billion in 2016 and is projected to exhibit a CAGR of 7.04% in value terms to reach $5.17 billion by 2026, on account of increasing awareness among farmers due to growing crop loss caused by rising number of pest attacks. Moreover, increasing adoption of biopesticides, rising preference towards environmental friendly pesticides and better agricultural practices are further anticipated to drive growth in India pesticides market through 2026.
Indian crop protection market was estimated at $3.8 billion in FY12 with exports constituting about 50% of the market. The crop protection market has experienced strong growth in the past and is expected to grow further at approximate 12% p.a. to reach $6.8 billion by FY17. The growth would be largely driven by export demand which is expected to grow at 15-16% P.A, while domestic demand is expected to grow at 8-9% p.a. Biopesticides, which currently represent only 4.2% of the overall pesticide market in India, are expected to exhibit an annual growth rate of about 10% in the coming years.
India pesticides market Size, By Region, By Volume, 2012-2026F (000’MT)
Indian Neem Pesticide Market (INR Crore)

Indian Neem pesticide market (INR crore)

<table>
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<th>Year</th>
<th>Value (INR Crore)</th>
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</tr>
<tr>
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<td>2017</td>
<td>141</td>
</tr>
<tr>
<td>2018</td>
<td>154</td>
</tr>
</tbody>
</table>
Major Queries/Questions Answered in the Report?

1. What is Neem Pesticide Manufacturing industry?

2. How has the Neem Pesticide Manufacturing industry performed so far and how will it perform in the coming years?

3. What is the Project Feasibility of Neem Pesticide Manufacturing Plant?

4. What are the requirements of Working Capital for setting up Neem Pesticide Manufacturing plant?
5. What is the structure of the Neem Pesticide Manufacturing Business and who are the key/major players?

6. What is the total project cost for setting up Neem Pesticide Manufacturing project?

7. What are the operating costs for setting up Neem Pesticide Manufacturing plant?

8. What are the machinery and equipment requirements for setting up Neem Pesticide Manufacturing plant?
9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Neem Pesticide Manufacturing Business?

10. What are the requirements of raw material for setting up Neem Pesticide Manufacturing plant?

11. Who are the Suppliers and Manufacturers of Raw materials for setting up Neem Pesticide Manufacturing plant?

12. What is the Manufacturing Process and Formulations of Neem Pesticide Manufacturing plant?
13. What is the total size of land required for setting up Neem Pesticide Manufacturing project?

14. What will be the income and expenditures Neem Pesticide Manufacturing plant?

15. What are the Projected Balance Sheets of Neem Pesticide Manufacturing Business?

16. What are the requirement of utilities and overheads for setting up Neem Pesticide Manufacturing plant?

17. What is the Built up Area Requirement and cost for setting up Neem Pesticide Manufacturing Business?
18. What are the Personnel (Manpower) Requirements for setting up Neem Pesticide Manufacturing Business?

19. What are Statistics of Import & Export for Neem Pesticide?

20. What is the time required to break-even of Neem Pesticide Manufacturing plant?

21. What is the Break-Even Analysis of Neem Pesticide Manufacturing plant?

22. What are the Project financials of Neem Pesticide Manufacturing plant?
23. What are the Profitability Ratios of Neem Pesticide Manufacturing plant?

24. What is the Sensitivity Analysis-Price/Volume of Neem Pesticide Manufacturing project?

25. What are the Projected Pay-Back Period and IRR of Neem Pesticide Manufacturing plant?

26. What is the Process Flow Sheet Diagram of Neem Pesticide Manufacturing project?
27. What are the Market Opportunities for setting up Neem Pesticide Manufacturing plant?

28. What is the Market Study and Assessment for setting up Neem Pesticide Manufacturing plant?

29. What is the Plant Layout for setting up Neem Pesticide Manufacturing Business?
Project Financials

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• This report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials
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- We use reliable sources of information and databases. And information from such sources is processed by us and included in the report.
Scope of the Report

The report titled “Market Survey cum Detailed Techno Economic Feasibility Report on Pesticides from Neem Seeds & Leaves” provides an insight into the Neem based Pesticide market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Neem based Pesticide project. The report assesses the market sizing and growth of the Indian Neem based Pesticide Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line. And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:
• Good Present/Future Demand
• Export-Import Market Potential
• Raw Material & Manpower Availability
• Project Costs and Payback Period

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in the Neem based Pesticide sector in India along with its business prospects. Through this report we have identified Neem based Pesticide project as a lucrative investment avenue.

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The detailed project report covers all aspect of business, from analyzing the market, confirming availability of various necessities such as Manufacturing Plant, Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Manufacturing Process, Machinery, Raw Materials, Feasibility Study, Investment Opportunities, Cost and Revenue, Plant Economics, Production Schedule,
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- Report Compilation
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