Production of PE Wax Emulsion

(Polyethylene Wax Emulsion)

Waxes are among the oldest worked materials used by humans. Their value as versatile construction materials ("man's first plastic") was discovered very early. Today, waxes are used mostly as additives and active substances. The use of waxes is expected to increase in the future because of their generally favourable toxicological and ecological properties.
The word "wax" usually refers to a variety of organic substances that are solid at ambient temperature but become free-flowing liquids at slightly higher temperatures. The chemical composition of waxes is complex, but normal alkanes are always present in high proportion and molecular weight profiles tend to be wide. The main commercial source of wax is crude oil but not all crude oil refiners produce wax.
"Mineral" wax can also be produced from lignite. Plants, animals and even insects produce materials sold in commerce as "wax." Wax emulsions are now well established and extensively used in aqueous formulations such as coatings, inks and OPVs, textile and leather treatments, polishes, paper and cardboard coatings, etc.
These ready-to-use emulsions can be easily incorporated by simple mixing. Their very fine particle size ensures an intimate and homogeneous incorporation within other ingredients of the formulation, maximizing the required effect(s).
Wax emulsions can be stabilized by either a steric mechanism (using with non-ionic emulsifiers) or by an electrostatic mechanism (using ionic emulsifiers, most often anionics). Combining anionic and non-ionic emulsifiers gives the emulsion an optimum stability because wax particles are protected through both stabilization mechanisms referred to as the electro-steric stabilization mechanism.
In addition to giving more flexibility in formulating, each stabilization mechanism has not only its own advantages and disadvantages but also significantly impacts on the overall formulation.

Polyethylene wax is used in many applications to improve processing and end product properties.
It is widely used in plastic, rubber and electrical industry, up to in ink, paint, detergent and chemical engineering industry, wax becomes more important product than ever in general industrial field as raw material additive improving its efficiency. As a whole it is a good project for new entrepreneurs to invest.
Market Outlook

Global PE wax market is projected to display a good growth of over 4.75% during 2017 - 2022, chiefly driven by increasing demand from high-growth industries like plastics, coating and textiles, coupled with the rising disposable income and industrialization in the emerging economies.
The global wax emulsion market is expected to reach USD 3.2 million by 2021, at a CAGR of 3.9% between 2016 and 2021. The rise in the demand for paints & coatings and adhesives & sealant are driving the growth of the global wax emulsion market.
## Project at a Glance

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<th>Proposed</th>
<th>Total</th>
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## Project at a Glance

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<th>Dividend</th>
<th>Retained Earnings</th>
<th>Payout</th>
<th>Probable Market Price</th>
<th>P/E Ratio</th>
<th>Yield Price/Book Value</th>
<th>EPS</th>
<th>CEPS</th>
<th>Per Share</th>
<th>Per Share</th>
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## Project at a Glance

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<th>Equity as-Equity Debt</th>
<th>Total Net Worth</th>
<th>Return on Net Worth</th>
<th>Profitability Ratio</th>
<th>Assets Turnover Ratio</th>
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## Project at a Glance

### BEP

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<td>Total BEP (% of Installed Capacity)</td>
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<tr>
<td>IRR, PAYBACK and FACR</td>
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<td>Internal Rate of Return (In %age)</td>
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<tr>
<td>Fixed Assets Coverage Ratio (No. of times)</td>
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1. What PE Wax Emulsion Manufacturing industry?

2. How has the PE Wax Emulsion Manufacturing industry performed so far and how will it perform in the coming years?

3. What is the Project Feasibility of Polyethylene Wax Emulsion Manufacturing Plant?

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

6. What is the total project cost for setting up Polyethylene Wax Emulsion Manufacturing plant?

7. What are the operating costs for setting up PE Wax Emulsion Manufacturing plant?

8. What are the machinery and equipment requirements for setting up Polyethylene Wax Emulsion Manufacturing plant?
9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Polyethylene Wax Emulsion Manufacturing plant?

10. What are the requirements of raw material for setting up PE Wax Emulsion Manufacturing plant?

11. Who are the Suppliers and Manufacturers of Raw materials for setting up Polyethylene Wax Emulsion Manufacturing plant?

12. What is the Manufacturing Process of PE Wax Emulsion?
13. What is the total size of land required for setting up PE Wax Emulsion Manufacturing plant?

14. What will be the income and expenditures for PE Wax Emulsion Manufacturing plant?

15. What are the Projected Balance Sheets of Polyethylene Wax Emulsion Manufacturing plant?

16. What are the requirement of utilities and overheads for setting up PE Wax Emulsion Manufacturing plant?

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

19. What are Statistics of Import & Export for PE Wax Emulsion?

20. What is the time required to break-even of PE Wax Emulsion Manufacturing plant?

21. What is the Break-Even Analysis of Polyethylene Wax Emulsion Manufacturing plant?

22. What are the Project financials of PE Wax Emulsion Manufacturing plant?
23. What are the Profitability Ratios of Polyethylene Wax Emulsion Manufacturing plant?

24. What is the Sensitivity Analysis-Price/Volume of PE Wax Emulsion Manufacturing plant?

25. What are the Projected Pay-Back Period and IRR of PE Wax Emulsion Manufacturing plant?

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27. What are the Market Opportunities for setting up Polyethylene Wax Emulsion Manufacturing plant?

28. What is the Market Study and Assessment for setting up PE Wax Emulsion Manufacturing plant?

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1.6. Growth Trend
1.7. Vendorisation/Ancillarisation of the industry
1.8. Service Enterprises
1.9. Potentials for New MSMES

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5. Classification of Emulsion Types
   5.1. Creaming and Sedimentation
   5.2. Flocculation
   5.3. Ostwald Ripening (Disproportionation)
   5.4. Coalescence
   5.5. Phase Inversion

6. Function of the Emulsifier

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7.1. Use in Textile Sector
7.2. Use in Food Packaging Sector
7.3. Use in Inks Sector
7.4. Use in Coating Sector

8. Properties of PE Wax

8.1. Characteristic & Properties of PE Wax
8.2. Important Functions

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9.2. Low Molecular Weight Polyethylene Wax
10. Types of Waxes

11. The Versatility of Waxes

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12.4. Indian Import/Export Trade Analysis
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13. Raw Material Details

13.1. Ethylene–
13.2. Catalysts –
13.3. Additives –

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14.1. High Pressure Process –
14.2. Compression –
14.3. Reaction –
14.4. Reaction Conditions –
14.5. Monomer-Polymer Separation –
14.6. Product Finishing –

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17. Process Flow Diagram

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18.1. Polythelene (PE) Wax
18.2. Oleic Acid
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18.5. Lab Chemicals

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19.4. Laboratory Equipment and Lab Testing Equipment
19.5. Air Compressor
19.6. Storage Tank
19.7. Boiler
19.8. Pumps
19.9. Piping and Fittings
19.10. Welding Machine

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20.2. D.M Water Plant
20.3. Stainless Steel Tank
20.4. Boiler
20.5. Pumps
20.6. Air Compressor
20.7. Polythene (PE) Wax
20.8. Laboratory & Other Chemicals
20.9. PE Wax Emulsion

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• Land & Building ......................................................................................................4

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Site Development Expenses
• Plant & Machinery
  Indigenous Machineries
  Other Machineries (Miscellaneous, Laboratory etc.)

• Other Fixed Assets
  Furniture & Fixtures
  Pre-operative and Preliminary Expenses
  Technical Knowhow
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  Raw Material
  Packing Material
  Lab & ETP Chemical Cost
  Consumable Store
• Overheads Required Per Month and Per Annum…………………………8
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  Selling and Distribution Expenses

• Salary and Wages ....................................................................................9

• Turnover Per Annum ..............................................................................10

• Share Capital............................................................................................11

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  Preference Share Capital
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- Financial Charges
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- Current Liabilities
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  - RONW (Average of Share Capital)
  - ROI (Average of Total Assets)

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- Semi-Variable/Semi-Fixed Expenses
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- Fixed Expenses / Cost
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- Resultant D.S.C.R
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- Resultant ROI
- Resultant BEP
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  ▪ Achievable Efficiency/Yield % of Products/Services/Items
  ▪ Net Usable Load/Capacity of Products/Services/Items
  ▪ Expected Sales/ Revenue/ Income of Products/ Services/ Items
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<td>Total Lab &amp; ETP Chemical Cost</td>
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<td>Consumables, Store etc.</td>
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<td>Packing Material Cost</td>
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<td>Packing Material Cost Per Unit</td>
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- Annexure 22 :: Fuel Expenses
- Annexure 23 :: Power/Electricity Expenses
- Annexure 24 :: Royalty & Other Charges
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• Annexure 32 :: Depreciation Charges - as per IT Act WDV (P & M)
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• Annexure 34 :: Tax on Profits
• Annexure 35 :: Projected Pay-Back Period and IRR
Reasons for buying our report:

• This report helps you to identify a profitable project for investing or diversifying into by throwing light to crucial areas like industry size, market potential of the product and reasons for investing in the product.

• This report provides vital information on the product like it’s characteristics and segmentation.

• This report helps you market and place the product correctly by identifying the target customer group of the product.
• This report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials.

• The report provides a glimpse of government regulations applicable on the industry.

• The report provides forecasts of key parameters which helps to anticipate the industry performance and make sound business decisions.
Our Approach:

• Our research reports broadly cover Indian markets, present analysis, outlook and forecast for a period of five years.

• The market forecasts are developed on the basis of secondary research and are cross-validated through interactions with the industry players.

• 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 PE Wax Emulsion (Polyethylene Wax Emulsion) ” provides an insight into the PE Wax Emulsion (Polyethylene Wax Emulsion) market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of PE Wax Emulsion (Polyethylene Wax Emulsion) project. The report assesses the market sizing and growth of the Indian PE Wax Emulsion (Polyethylene Wax Emulsion) 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 PE Wax Emulsion (Polyethylene Wax Emulsion) sector in India along with its business prospects. Through this report we have identified PE Wax Emulsion (Polyethylene Wax Emulsion) project as a lucrative investment avenue.

See more

https://goo.gl/L8L8Cq
https://goo.gl/cKvnuu
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Take a look at Niir Project Consultancy Services on #Street View
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Our inexhaustible Client list includes public-sector companies, Corporate Houses, Government undertaking, individual entrepreneurs, NRI, Foreign investors, non-profit organizations and educational institutions from all parts of the World. The list is just a glimpse of our esteemed & satisfied Clients.

Click here to take a look https://goo.gl/G3ICjV
Free Instant Online Project Identification & Selection Search Facility

Selection process starts with the generation of a product idea. In order to select the most promising project, the entrepreneur needs to generate a few ideas about the possible projects. Here's we offer a best and easiest way for every entrepreneur to searching criteria of projects on our website www.entrepreneurindia.co that is “Instant Online Project Identification and Selection”
NPCS Team has simplified the process for you by providing a "Free Instant Online Project Identification & Selection" search facility to identify projects based on multiple search parameters related to project costs namely: Plant & Machinery Cost, Total Capital Investment, Cost of the project, Rate of Return% (ROR) and Break Even Point % (BEP). You can sort the projects on the basis of mentioned pointers and identify a suitable project matching your investment requisites.

Click here to go

http://www.entrepreneurindia.co/project-identification
Contact us

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https://goo.gl/VstWkd
An ISO 9001:2015 Company
Who are we?

- One of the leading reliable names in industrial world for providing the most comprehensive technical consulting services

- We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients’ in India & abroad
We at NPCS want to grow with you by providing solutions scale to suit your new operations and help you reduce risk and give a high return on application investments. We have successfully achieved top-notch quality standards with a high level of customer appreciation resulting in long lasting relation and large amount of referral work through technological breakthrough and innovative concepts. A large number of our Indian, Overseas and NRI Clients have appreciated our expertise for excellence which speaks volumes about our commitment and dedication to every client's success.
We bring deep, functional expertise, but are known for our holistic perspective: we capture value across boundaries and between the silos of any organization. We have proven a multiplier effect from optimizing the sum of the parts, not just the individual pieces. We actively encourage a culture of innovation, which facilitates the development of new technologies and ensures a high quality product.
What do we offer?

- Project Identification
- Detailed Project Reports/Pre-feasibility Reports
- Market Research Reports
- Business Plan
- Technology Books and Directory
- Industry Trend
- Databases on CD-ROM
- Laboratory Testing Services
- Turnkey Project Consultancy/Solutions
- Entrepreneur India (An Industrial Monthly Journal)
How are we different?

- We have two decades long experience in project consultancy and market research field.
- We empower our customers with the prerequisite know-how to take sound business decisions.
- We help catalyze business growth by providing distinctive and profound market analysis.
- We serve a wide array of customers, from individual entrepreneurs to Corporations and Foreign Investors.
- We use authentic & reliable sources to ensure business precision.
Our Approach

- Requirement collection
- Thorough analysis of the project
- Economic feasibility study of the Project
- Market potential survey/research
- Report Compilation
Who do we serve?

- Public-sector Companies
- Corporates
- Government Undertakings
- Individual Entrepreneurs
- NRI’s
- Foreign Investors
- Non-profit Organizations, NBFC’s
- Educational Institutions
- Embassies & Consulates
- Consultancies
- Industry / trade associations
Sectors We Cover

- Ayurvedic And Herbal Medicines, Herbal Cosmetics
- Alcoholic And Non Alcoholic Beverages, Drinks
- Adhesives, Industrial Adhesive, Sealants, Glues, Gum & Resin
- Activated Carbon & Activated Charcoal
- Aluminium And Aluminium Extrusion Profiles & Sections,
- Bio-fertilizers And Biotechnology
- Breakfast Snacks And Cereal Food
- Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling
Sectors We Cover

- Bamboo And Cane Based Projects
- Building Materials And Construction Projects
- Biodegradable & Bioplastic Based Projects
- Chemicals (Organic And Inorganic)
- Confectionery, Bakery/Baking And Other Food
- Cereal Processing
- Coconut And Coconut Based Products
- Cold Storage For Fruits & Vegetables
- Coal & Coal Byproduct
Sectors We Cover Cont...

- Copper & Copper Based Projects
- Dairy/Milk Processing
- Disinfectants, Pesticides, Insecticides, Mosquito Repellents,
- Electrical, Electronic And Computer based Projects
- Essential Oils, Oils & Fats And Allied
- Engineering Goods
- Fibre Glass & Float Glass
- Fast Moving Consumer Goods
- Food, Bakery, Agro Processing
Sectors We Cover

- Fruits & Vegetables Processing
- Ferro Alloys Based Projects
- Fertilizers & Biofertilizers
- Ginger & Ginger Based Projects
- Herbs And Medicinal Cultivation And Jatropha (Biofuel)
- Hotel & Hospitality Projects
- Hospital Based Projects
- Herbal Based Projects
- Inks, Stationery And Export Industries
Sectors We Cover

- Infrastructure Projects
- Jute & Jute Based Products
- Leather And Leather Based Projects
- Leisure & Entertainment Based Projects
- Livestock Farming Of Birds & Animals
- Minerals And Minerals
- Maize Processing (Wet Milling) & Maize Based Projects
- Medical Plastics, Disposables Plastic Syringe, Blood Bags
- Organic Farming, Neem Products Etc.
Sectors We Cover

- Paints, Pigments, Varnish & Lacquer
- Paper And Paper Board, Paper Recycling Projects
- Printing Inks
- Packaging Based Projects
- Perfumes, Cosmetics And Flavours
- Power Generation Based Projects & Renewable Energy Based Projects
- Pharmaceuticals And Drugs
- Plantations, Farming And Cultivations
- Plastic Film, Plastic Waste And Plastic Compounds
- Plastic, PVC, PET, HDPE, LDPE Etc.
Sectors We Cover

- Potato And Potato Based Projects
- Printing And Packaging
- Real Estate, Leisure And Hospitality
- Rubber And Rubber Products
- Soaps And Detergents
- Stationary Products
- Spices And Snacks Food
- Steel & Steel Products
- Textile Auxiliary And Chemicals
Sectors We Cover

- Township & Residential Complex
- Textiles And Readymade Garments
- Waste Management & Recycling
- Wood & Wood Products
- Water Industry (Packaged Drinking Water & Mineral Water)
- Wire & Cable
Contact us

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