

## Start a Manufacturing Business of

# Glass Vials

Rising Demand of Glass Vials in Pharmaceutical Sector.



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#### Introduction

A glass vial is a small glass jar or container that is commonly used to store liquid, powder, or capsule medicine. They're also used in an auto sampler kit as a scientific sample vessel. A vial is a small container made of glass or plastic that is used to hold liquids. Unlike traditional blood collection tubes, it may be shaped like a tube or bottle and have a flat bottom.

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Vials come with a variety of caps to satisfy particular storage and handling needs. Though plastic is becoming more popular, smaller glass vessels are becoming more popular. In contrast to research tubes, the bottom is normally flat, and the drug vial is the common term since it is often used in medicine. Polypropylene is used to make modern vials. Typically used for storing medications in

liquid, cap, or powder shape.



The option between the two is a personal one that depends on the liquid, tablet, or powder being transported, but vials have often been more common, used, and recycled. Glass vials are still used for certain items, such as immunizations, but plastic is becoming more common. Small bottles or containers made of plastic or glass are known as vials. Plastic or glass vials are commonly used in modern vials.





#### Rising Demand of Glass Vials in Pharmaceutical Sector Due to Covid-19:

The world is reacting quickly and decisively to the unprecedented Covid-19 pandemic. Pharmaceutical companies all over the world are working nonstop to find a solution to the global health crisis caused by Covid-19. As a result of this, demand for glass vials is increasing in the pharmaceutical industry around the world, in anticipation of the demand for COVID-19 vaccine supply. Various safety steps, such as meticulous implementation of safety protocols and increased vigilance in global manufacturing plants.



### Uses of Glass Vials

Vials are used to store liquid drugs, but they may also be used to store powders or tablets. As with most items, it can appear that there are infinite varieties of vials, but in fact, there are only two types of vials:

- Vials with Screw Threads (These have a screw cap)
- Lip Vials with a Patent (These have a stopper or a cork)



A single-dose vial can only be used once, while a multi-dose vial can be used several times. Glass Vials are used to store liquids, powders, and capsules. They can also be used as scientific sample containers, such as in analytical chromatography's auto sampler units. Tiny amounts of liquid used in medical or molecular biology applications are often stored in them.

There are many different types of closure systems that are widely used.



Cryogenic vials are usually made of polypropylene that has been specially configured. Sample vials are multipurpose containers for collecting, storing, and transporting a variety of specimens. Sample vials containing everything from natural oils to proof recovered from a crime scene. Sample vials may be clear, amber, or white and made of glass or plastic.

Autoclavable sample vials are also possible.



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## **Production process**

Earlier this year, there was concern that a shortage of these small bottles would stymie vaccine delivery. Since then, manufacturers of pharmaceutical vials all over the world have announced plans to ramp up production. The following steps are included in a system for producing glass vials, specifically pharmaceutical vials or pharmaceutical ampoules, from a glass tube:

- (npcs
- (a) Rotating the glass tube around its longitudinal axis;
- (b) Locally heating the glass tube from one side with at least one burner to at least the glass's softening temperature;
- (c) Reducing the diameter by pressing at least one forming body laterally against the heated region; (d) Separating the glass tube with a burner



According to ISO 4802, a glass vial manufactured in this manner releases less alkali and has a lower delamination tendency.

Furthermore, as compared to the alkali content in the glass interior, the alkali content in the hot-formed peripheral area is only marginally lower.





## **Market Outlook**

The Global Vials Market is expected to expand at a CAGR of 7%. Increasing government investment in the biochemical industry, as well as an increase in the number of chemical laboratories, would help to propel this market forward. High investment costs, on the other hand, would limit the market's growth and are likely to limit profit margins. In the years 2019-2026, the global vials market is expected to grow at a significant rate.

(npcs

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Unlike plastic or aluminum, glass does not add flavors to the drugs it stores, preserving their integrity and driving demand for glass vials in pharmaceutical and personal care packaging.

Glass vials have been favored by manufacturers, distributors, and retailers over alternative containers on the market because they offer a longer shelf life, ease of use, and contaminationfree storage, among other benefits.



Glass vials are easily recyclable, making them a popular option among environmentally conscious consumers. Glass vial packaging, on the other hand, is a capital-intensive business that requires the use of large furnaces and machines. The continuous advances in drug delivery formats used in the healthcare industry have a direct

impact on the glass vials market.



## **Key Players**

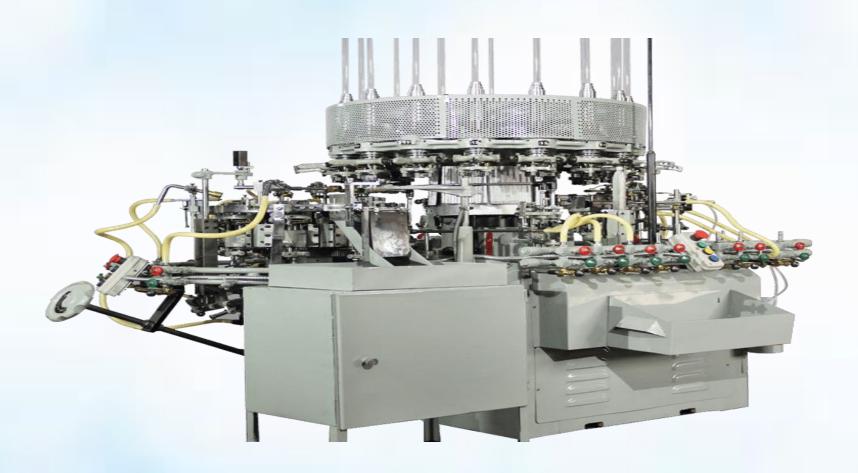
- Adelphi Healthcare Packaging
- Comar LLC.
- Schott AG
- Gerresheimer AG
- PerkinElmer Inc.
- Phoenix Glass



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- Phoenix Glass



## **Machinery Photographs**



**Head Glass Vial Forming Machine** 





#### **Vial Making Machine**



## Major Queries/Questions Answered in the Report?

- 1. What is Glass Vial Manufacturing industry?
- 2. How has the Glass Vial Manufacturing industry performed so far and how will it perform in the coming years?
- 3. What is the Project Feasibility of Glass Vial Manufacturing Plant?
- 4. What are the requirements of Working Capital for setting up Glass Vial Manufacturing plant?



- 5. What is the structure of the Glass Vial Manufacturing Business and who are the key/major players?
- 6. What is the total project cost for setting up Glass Vial Manufacturing Business?
- 7. What are the operating costs for setting up Glass Vial Manufacturing plant?
- 8. What are the machinery and equipment requirements for setting up Glass Vial Manufacturing plant?



- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Glass Vial Manufacturing plant?
- 10. What are the requirements of raw material for setting up Glass Vial Manufacturing plant?
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up Glass Vial Manufacturing Business?
- 12. What is the Manufacturing Process of Glass Vial?



- 13. What is the total size of land required for setting up Glass Vial Manufacturing plant?
- 14. What will be the income and expenditures for Glass Vial Manufacturing Business?
- 15. What are the Projected Balance Sheets of Glass Vial Manufacturing plant?
- 16. What are the requirement of utilities and overheads for setting up Glass Vial Manufacturing plant?
- 17. What is the Built up Area Requirement and cost for setting up Glass Vial Manufacturing Business?

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- 18. What are the Personnel (Manpower) Requirements for setting up Glass Vial Manufacturing Business?
- 19. What are Statistics of Import & Export for Glass Vial?
- 20. What is the time required to break-even of Glass Vial Manufacturing Business?
- 21. What is the Break-Even Analysis of Glass Vial Manufacturing plant?
- 22. What are the Project financials of Glass Vial Manufacturing Business?

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- 23. What are the Profitability Ratios of Glass Vial Manufacturing Project?
- 24. What is the Sensitivity Analysis-Price/Volume of Glass Vial Manufacturing plant?
- 25. What are the Projected Pay-Back Period and IRR of Glass Vial Manufacturing plant?
- 26. What is the Process Flow Sheet Diagram Of Glass Vial Manufacturing project?



## 27. What are the Market Opportunities for setting up Glass Vial Manufacturing plant?

- 28. What is the Market Study and Assessment for setting up Glass Vial Manufacturing Business?
- 29. What is the Plant Layout for setting up Glass Vial Manufacturing Business?







#### 1. Introduction

- Project Introduction
- Project Objective and Strategy
- Concise History of the Product
- Properties
- BIS (Bureau of Indian Standards) Provision & Specification
- Uses & Applications

#### 2. Indian Market Study and Assessment

- Current Indian Market Scenario
- Present Market Demand and Supply
- Estimated Future Market Demand and Forecast
- Statistics of Import & Export
- Names & Addresses of Existing Units (Present Players)
- Market Opportunity



#### 3. Raw Material

- List of Raw Materials
- Properties of Raw Materials
- Prescribed Quality of Raw Materials
- List of Suppliers and Manufacturers

#### 4. Personnel (Manpower) Requirements

 Requirement of Staff & Labor (Skilled and Unskilled) Managerial, Technical, Office Staff and Marketing Personnel



#### 5. Plant and Machinery

- List of Plant & Machinery
- Miscellaneous Items
- Appliances & Equipments
- Laboratory Equipments & Accessories
- Electrification
- Electric Load & Water
- Maintenance Cost
- Sources of Plant & Machinery (Suppliers and Manufacturers)



#### 6. Manufacturing Process and Formulations

- Process of Manufacture with Formulation
- Packaging Required
- Process Flow Sheet Diagram

#### 7. Infrastructure and Utilities

- Project Location
- Requirement of Land Area
- Rates of the Land
- Built Up Area
- Construction Schedule
- Plant Layout and Requirement of Utilities



## **Project Financials**

Project at a Glance

**Annexure** 

•	Assumptions for Profitability workings	······
•	Plant Economics	<b>2</b>
•	Production Schedule	3
•	Land & Building	4
	Factory Land & Building Site Development Expenses	



•	Plant & Machinery5 Indigenous Machineries
	Other Machineries (Miscellaneous, Laboratory etc
•	Other Fixed Assets6
	Furniture & Fixtures
	Pre-operative and Preliminary Expenses
	Technical Knowhow
	Provision of Contingencies
•	Working Capital Requirement Per Month7
	Raw Material
	Packing Material
	Lab & ETP Chemical Cost
	Consumable Store



•	Overheads Required Per Month and Per Annum8  Utilities & Overheads (Power, Water and Fuel Expenses etc.)		
	Royalty and Other Charges		
	Selling and Distribution Expenses		
•	Salary and Wages9		
•	Turnover Per Annum10		
•	Share Capital11		

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**Equity Capital** 

**Preference Share Capital** 



- ☐ Annexure 1:: Cost of Project and Means of Finance
- ☐ Annexure 2 :: Profitability and Net Cash Accruals
- Revenue/Income/Realisation
- Expenses/Cost of Products/Services/Items
- Gross Profit
- Financial Charges
- Total Cost of Sales
- Net Profit After Taxes
- Net Cash Accruals



- ☐ Annexure 3 :: Assessment of Working Capital requirements
- Current Assets
- Gross Working Capital
- Current Liabilities
- Net Working Capital
- Working Note for Calculation of Work-in-process
- ☐ Annexure 4 :: Sources and Disposition of Funds



- ☐ Annexure 5 :: Projected Balance Sheets
- ROI (Average of Fixed Assets)
- RONW (Average of Share Capital)
- ROI (Average of Total Assets)
- ☐ Annexure 6 :: Profitability Ratios
- D.S.C.R
- Earnings Per Share (EPS)
- Debt Equity Ratio



- ☐ Annexure 7 :: Break-Even Analysis
- Variable Cost & Expenses
- Semi-Variable/Semi-Fixed Expenses
- Profit Volume Ratio (PVR)
- Fixed Expenses / Cost
- B.E.P



#### ☐ Annexure 8 to 11:: Sensitivity Analysis-Price/Volume

- Resultant N.P.B.T
- Resultant D.S.C.R
- Resultant PV Ratio
- Resultant DER
- Resultant ROI
- Resultant BEP



- ☐ Annexure 12:: Shareholding Pattern and Stake Status
- Equity Capital
- Preference Share Capital
- ☐ Annexure 13 :: Quantitative Details-Output/Sales/Stocks
- Determined Capacity P.A of Products/Services
- Achievable Efficiency/Yield % of Products/Services/Items
- Net Usable Load/Capacity of Products/Services/Items
- Expected Sales/ Revenue/ Income of Products/ Services/
   Items



- ☐ Annexure 14 :: Product wise Domestic Sales Realisation
- ☐ Annexure 15 :: Total Raw Material Cost
- ☐ Annexure 16 :: Raw Material Cost per unit
- ☐ Annexure 17:: Total Lab & ETP Chemical Cost
- ☐ Annexure 18 :: Consumables, Store etc.
- ☐ Annexure 19 :: Packing Material Cost
- ☐ Annexure 20 :: Packing Material Cost Per Unit



- ☐ Annexure 21 :: Employees Expenses
- ☐ Annexure 22 :: Fuel Expenses
- ☐ Annexure 23 :: Power/Electricity Expenses
- ☐ Annexure 24 :: Royalty & Other Charges
- ☐ Annexure 25 :: Repairs & Maintenance Expenses
- ☐ Annexure 26 :: Other Manufacturing Expenses
- ☐ Annexure 27 :: Administration Expenses
- ☐ Annexure 28 :: Selling Expenses

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- □ Annexure 29 :: Depreciation Charges as per Books (Total)
- □ Annexure 30 :: Depreciation Charges as per Books (P & M)
- ☐ Annexure 31 :: Depreciation Charges as per IT Act WDV (Total)
- □ Annexure 32 :: Depreciation Charges as per IT Act WDV(P & M)
- □ Annexure 33 :: Interest and Repayment Term Loans
- □ 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 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 Glass Vials." provides an insight into Glass Vials market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Glass Vials project. The report assesses the market sizing and growth of the Indian Glass Vials 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 Glass Vials sector in India along with its business prospects. Through this report we have identified Glass Vials project as a lucrative investment avenue.



# **Tags**

```
#DetailedProjectReport
#businessconsultant #BusinessPlan
#feasibilityReport
                             #NPCS
#entrepreneurindia #startupbusiness
#ProjectReport
                           #startup
#projectconsultancy
                        #GlassVials
#businessopportunity
#Vials #GlassIndustry #GlassBottels
#GlassBusiness #Vaccinepackaging
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# Glass Vials

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#### **OUR CLIENTS**

Our inexhaustible Client list includes publicsector 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.

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# Select and Choose the Right Business Startup for You (Instant Online Project Identification and Selection)

Finding the right startup business is one of the most popular subject today. Starting a business is no easy endeavor, but the time, effort, and challenges can be worth it if you succeed. To give yourself the best chance to be successful, take your time to carefully find the right business for you. We, at NPCS, endeavor to make business selection a simple and convenient step for any entrepreneur/startup. Our expert team, by capitalizing on its dexterity and decade's long experience in the field, has created a list of profitable ventures for entrepreneurs who wish to diversify or venture. The list so mentioned is updated regularly to give you a regular dose of new emerging opportunities.

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NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.

Our Market Survey cum Detailed Techno Economic Feasibility Report provides an insight of market in India. The report assesses the market sizing and growth of the 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

**Economics, Production Schedule,** 

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

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Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis. The DPR (Detailed Project Report) is formulated by highly accomplished and experienced consultants and the market research and analysis are supported by a panel of experts and digitalized data bank. 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 India along with its

Working Capital Requirement, uses and applications, Plant

Layout, Project Financials, Process Flow Sheet, Cost of

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## Contact us

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# NIIR PROJECT CONSULTANCY SERVICES

**AN ISO 9001: 2015 CERTIFIED COMPANY** 

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## 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



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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)

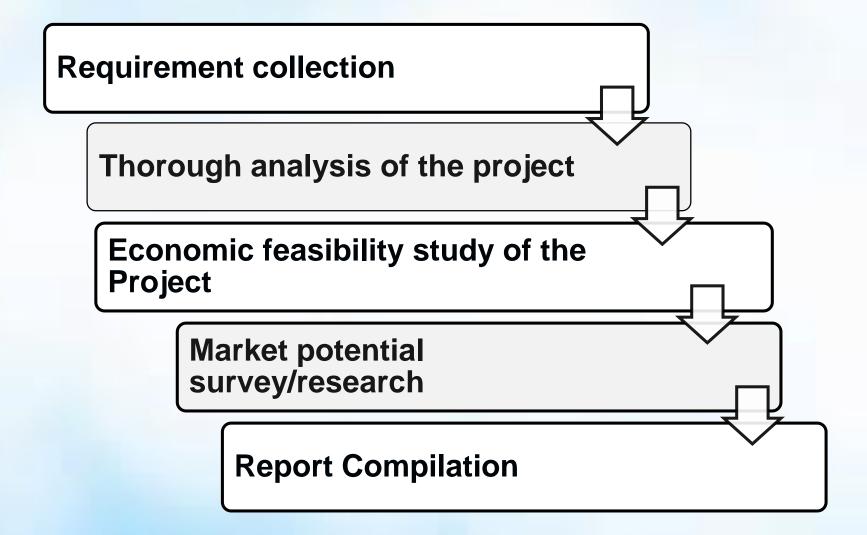


#### How are we different?

- 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





#### 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**

#### 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 Cont...

#### Sectors We Cover cont..

- **\*** 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...

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 Cont...

#### Sectors We Cover cont.

- Fruits & Vegetables Processing
- Ferro Alloys Based Projects
- Fertilizers & Biofertilizers
- Ginger & Ginger Based Projects
- Herbs And Medicinal Cultivation And Jatropha (Biofuel)
- ❖ Hotel & Hospitability Projects
- \* Hospital Based Projects
- **\*** Herbal Based Projects
- Inks, Stationery And Export Industries



#### Sectors We Cover cont...

#### Sectors We Cover Cont...

- 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 Cont...

#### Sectors We Cover Cont...

- ❖ 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 Cont...

Sectors We Cover Cont.

- 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 cont...

Sectors We Cover cont...

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



# MARKET RESEARCH REPORTS MAKKET KESEARCH KENOKIS



#### **Objective**

- To get a detailed scenario of the industry along with its structure and classification
- To provide a comprehensive analysis of the industry by covering aspects like:
  - ☐ Growth drivers of the industry
  - ☐ Latest market trends
  - ☐ Insights on regulatory framework
  - ☐ SWOT Analysis
  - ☐ Demand-Supply Situation
  - ☐ Foreign Trade
  - ☐ Porters 5 Forces Analysis



#### **Objective**

- To provide forecasts of key parameters which helps to anticipate the industry performance
- To help chart growth trajectory of a business by detailing the factors that affect the industry growth
- To help an entrepreneur/manager in keeping abreast with the changes in the industry
- To evaluate the competitive landscape of the industry by detailing:
  - ☐ Key players with their market shares
  - ☐ Financial comparison of present players



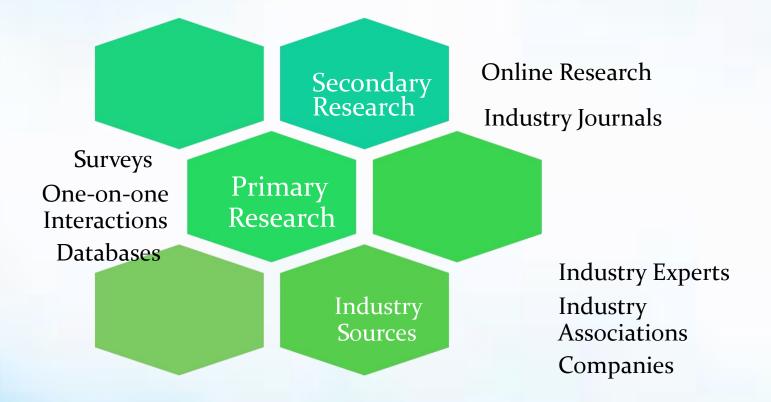
#### Clientele

- Venturist/Capitalists
- Entrepreneur/Companies
- Industry Researchers
- Investment Funds
- Foreign Investors, NRI's
- Project Consultants/Chartered Accountants
- Banks
- Corporates

**Click here for list** 



# Data Sources Data Sources









#### **Our Team**

- ☐ Our research team comprises of experts from various financial fields:
- ☐ MBA's
- ☐ Industry Researchers
- Financial Planners
- ☐ Research veterans with decades of experience



#### Structure of the Report

- ructure of the Report
  - 1. Overview
  - 2. Market Analysis
    - 2.1 Growth Drivers
    - 2.2 Emerging Trends in the Industry
    - 2.3 Regulatory Framework
    - 2.4 SWOT Analysis
    - 2.5 Herfindahl-Hirschman Index (HHI)
  - 3. Market Forecasts
  - 4. Key Players



#### Structure of the Report

- 5. Key Financials and Analysis
  - **5.1** Contact Information
  - **5.2** Key Financials
  - **5.3** Financial comparison
- 6. Industry Size & Outlook



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