

# Manufacturing Business Plan for Startups in Disposable IV Set

A Lucrative Business
Opportunity in
Infusion Set Production







# Introduction

IV sets are used for the controlled infusion of medicines, typically over long periods of your time. IV sets are wont to connect the medication to the needle inserted into the patient. IV extension sets also are wont to extend IV lines without risk of contamination.

It is an infusion set that's wont to administer intravenous therapy, wherein a liquid substance is delivered directly into the patients' vein. It provides medical personnel with a brisk and effective means to deliver fluids and medicine during medical conditions like dehydration, electrolyte imbalances, specialized medication delivery, or for blood transfusions.

Related projects: - Surgical, Medical Plastics, Medical Disposables,

**Disposable Medical Products used in Hospitals** 



However, the type of administration depends upon the speed and type of infusion, and therefore the quite solution container used. An IV infusion set should be tailored to the patient and therefore the planned treatment procedure.

Related project: - Production of IV Infusion Set (IV Set)





# <u>Uses</u>

# **Main Uses**

IV sets are used for the controlled infusion of medications, typically over long periods of time. IV sets are used to connect the medication to the needle inserted into the patient. IV extension sets are also used to extend IV lines without risk of contamination.

When using IV administration sets can adjust the flow rate to be faster or slower depending on the medication you are infusing and the prescription orders. Using a mechanical pump like the Freedom 60 syringe pump, you can set more rapid infusion rates with extreme precision.

Related Books: - Disposable Products (Medical, Surgical, Thermocol,

Plastic, Paper, Domestic And General Products)



This infusion device is capable of maintaining a constant 13.5 psi of pressure and uses precision restrictive tubing. It also has failsafe mechanisms built into it, In the situation that there is an increase in pressure at an infusion site, the flow rate will decrease in proportion to the increase. This allows for much more confidence and precision when delivering more rapid infusions.

While somewhat less precise than mechanical pumps, manual flow regulators are significantly lower in cost which makes them great for everyday infusion needs.

Related Videos: - <u>Disposable Products</u>



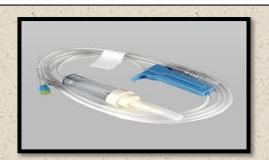


# **Common Uses**

IV administration sets have a number of common uses in medical settings for the infusion of medication or fluids into a patient. IV sets can be used to infuse life-saving medications like antibiotics, infectious disease infusion or even for blood transfusions.

IV Sets are also used in the administration of chemotherapy and other long-duration infusions. IV sets are also home infusion settings and for a variety of therapies like vitamin infusion therapy.

Related project: - Production of IV Infusion Set (IV Set)





# **Common Features**

- Single use, sterile and non-pyrogenic.
- > Gravity Feed
- > Transparent and flexible drip chamber for easy fluid adjustment and drop count
- ➤ 15-micron fluid filter in drip chamber
- > Soft and kink resistant PVC tubing ensures accurate uniform flow rate without restriction
- Strong self-sealing latex free bulb
- Fine roller clamp enables easy, safe control and adjustment of fluid rates
- > Tube length: 150 cm
- > Tube dia Int. » 3.0mm & Ext. » 4.1mm

Related Videos: - Business Ideas for Startups



# **Different Kinds of IV Sets**

While IV sets are all used for similar reasons, there are a variety of different types of IV sets available depending on the specific therapeutic need.

Filtered IV Sets

Vented IV Sets

Non-Vented IV Sets

**Gravity Tubing** 

**Related Videos: - Small Business Ideas** 





# **Application**

Anti-infective

Hydration Therapy

Chemotherapy

**Enteral Nutrition** 

Parenteral Nutrition

Specialty Pharmaceuticals

Other

**Projects:** - Project Reports & Profiles





# What are the Major Applications of Infusion Therapy?

Infusion therapy is widely used during pain management, chemotherapy, dehydration and nutrition supply. Infusion therapy is employed in hospitals, clinics and also as home. The utilization of infusion therapy in hospitals dominates the market. Intravenous infusion therapy is understood to treat pains of all types including headache and neuropathic pain. Some infusion pumps are designed to assist a specific disease treatment. For instance, enteral pump is used to deliver liquids or medications to the alimentary canal. Congestive coronary failure, Crohn's disease, hemophilia, immune deficiencies, multiple sclerosis, rheumatoid arthritis, and lots of other diseases are often treated by specialized infusion therapies.

**Books:- BOOKS & DATABASES** 



# **Market Outlook**

The global IV tubing sets and accessories market is predicted to witness robust growth during the forecast period. This growth is expected to be primarily driven by increasing acceptance of latest technology like filtered IV tubes and IV tubing sets with flow regulators because of several benefits such as improved medication, precise and accurate drug delivery and faster results.

Further, products from various companies are within the pipeline for approval, which is anticipated to fuel market revenue growth within the coming years. Key marketing strategies adopted by the highest market companies is additionally expected to boost the growth of the worldwide IV tubing sets market.

Market Research: Market Research Report



Moreover, elderly people also are facing malnourishment and therefore the growing number of aging population round the world and technological advancements with the surgical procedures will end in the adoption of peripheral intravenous catheter insertion procedure and promotes the segment growth. the growth of the market include a rise in hospital admission rate with rise in patient's income and insurance coverage in low-income countries, the surge in infectious diseases, life-style borne disorders, and rising cases of geriatrics seeking medical attention across the world.

By 2020, the U.S. infusion therapy device market size was valued at \$2.9 billion, with over 230 million primary IV sets sold every year. Despite COVID19, the market size is expected to increase at a compound annual growth rate (CAGR) of 2.6% to reach \$3.5 billion in 2026.

## Related project: - Production of IV Infusion Set (IV Set)



# **Growth Drivers**

There has been a rise in the incidence and prevalence of coronary artery diseases (CAD) associated diseases globally, with a sudden cardiac arrest being the leading cause of death among individuals aged 60 years and above. According to National Institute of Health (NIH), currently about 8.5% (617 million) of the global population are of 65 years and above age. This number it is estimated to increase to nearly 17% by 2050 (1.6 billion). In Americas, 65 and above aged population is expected to be doubled and cross 85 million by 2050. CAD is the most common heart disease affecting millions of people worldwide. The market growth is attributed to cost efficiency and improved patient outcomes, along with rise in chronic diseases such as cancer, diabetes, asthma, obesity, and other lifethreatening conditions. These medical conditions will impel the market growth.

Related Videos: - Business Ideas for Startups



# **Insight by Product Type**

Based upon product, global market is categorized into primary IV tubes, secondary IV, extension IV, IV infusion set with flow regulator, filtered IV, non-vented IV, vented IV tubing sets, and IV tubing accessories. the primary tubing is further segmented into macro-drip and micro-drip IV sets. In 2019, primary IV tubing sets accounted for the most important share and expected to its marginal share by 2027. This high share is attributed to its extensive use generally medical cases such as dehydration, electrolyte imbalances, and for parenteral nutrition. The extension tubing set segment is predicted to register the fastest rate of growth over the study period. Its application during a sizable amount of cases where patient requires large volume of medication and to stop frequent rupturing of tubing sets thanks to high.

**Projects:** - Project Reports & Profiles



# <u>Increasing Demand for Anti-Infective Therapy Will Create</u> <u>Profitable Opportunities, Thereby Boosting the Market Growth</u>

Anti-infective segment held the highest market share in 2019 and is expected to expand at a CAGR of 10.8% during the forecast timeframe. High growth rate is due to the administration of medication such as antifungal and antibiotics that are performed in large number of procedures. This will generate significant demand for anti-infective therapy, thereby fuelling the market growth. The advantage of anti-infective treatment with home infusion therapy will led to cost-effective treatment by reducing inpatients stays in hospitals and exposure to the hospital-acquired infections. Thus, these advantages will contribute in the segmental growth, thereby increasing the adoption of home infusion therapy.

Related project: - Production of IV Infusion Set (IV Set)



# The Market is Primarily Segmented on the Basis of Product Type, By Application, By End Use, By Age Group, And by Geographic Region

By Product Type	By Application	By End Use	By Age Group	By Region
<ul> <li>Primary IV Tubing Sets</li> <li>Macro-Drip IV Sets</li> <li>Micro-Drip IV Sets</li> <li>Secondary IV Tubing Sets</li> <li>Extension IV Tubing Sets</li> <li>IV Infusion Set with Flow Regulator</li> <li>Filtered IV Tubing Sets</li> <li>Non-Vented IV Tubing Sets</li> <li>Vented IV Tubing Sets</li> <li>IV Tubing Accessories</li> </ul>	Peripheral Intravenous Catheter Insertion     Central Venous Catheter Placement     PICC Line Insertion	Hospitals     Ambulatory     Surgical Centers     Specialized Clinics     Skilled Nursing     Facilities     Long Term Care     Centers     Others	Pediatric     Adult     Geriatric	<ul> <li>North America (U.S., Canada)</li> <li>Europe (France, Germany, UK, Italy, Spain, Belgium, Austria)</li> <li>Asia Pacific (Japan, China, India, Malaysia, Indonesia. South Korea)</li> <li>Latin America (Brazil, Mexico, Argentina)</li> <li>MEA (Saudi Arabia, UAE, Israel, South Africa)</li> </ul>



# **Key Players:-**

Angi Plast Pvt. Ltd.

Axiom Medisurg Ltd.

Hemant Surgical Inds. Ltd

La Medical Devices Ltd.

Sangam Health Care Products Ltd.

Smith's Medical India Pvt. Ltd.



# Machinery Photographs



6 SETS SPIKE ASSEMBLY MACHINE



LATEX TUBE ASSEMBLY MACHINE





AUTOMATIC PACKING MACHINE



FLOW REGULATOR ASSEMBLY MACHINE

# **Project at a Glance**

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# **Project at a Glance**

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						100.0					
2-3	8.00	11.87	23.57	18.00	0.00	0	8.00	0.00	8.00	1.00	0.00
						100.0					
3-4	10.44	13.76	34.01	12.00	0.00	0	10.44	0.00	10.44	1.00	0.00
4-						100.0					
5	12.86	15.70	46.87	6.00	0.00	0	12.86	0.00	12.86	1.00	0.00
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# Project at a Glance

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# Major Queries/Questions Answered in the Report?

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



- 5. What is the structure of the IV Set Manufacturing Business and who are the key/major players?
- 6. What is the total project cost for setting up IV Set Manufacturing Business?
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- (npcs)
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- (npcs)
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# 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 IV Set ." provides an insight into IV Set market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of IV Set project. The report assesses the market sizing and growth of the Indian IV Set 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 IV Set sector in India along with its business prospects. Through this report we have identified IV Set project as a lucrative investment avenue.



# **Tags**

```
#infusionset
                #ivset
                                                  #IVSetProduction
                          #IVSetManufacturing
                  #IVSetBusinessIdeas
#IVSetBusiness
                                         #InfusionSetmanufacturing
#InfusionSetInvestment
                                                #InfusionSetMarket
#InfusionSetBusinessplan
                            #IntravenousSetMarket
                                                       #NewRelease
#Startupbusinessideas
                             #businessestostart
                                                      #startupideas
#businessstartupindia
                          #StartupBusiness
                                                #projectconsultancy
#businessconsulting
                     #projectconsultant
                                          #InvestmentOpportunities
                            #businessconsultant
                                                     #BusinessPlan
#DetailedProjectReport
                                            #ManufacturingBusiness
#feasibilityReport
                           #NPCS
#ProductionBusiness #IVSetBusinessPlan
```



# NIIR PROJECT CONSULTANCY SERVICES (NPCS) can provide Detailed Project Report on

**Production of IV Infusion Set (IV Set)** 

# See more

**Project Reports & Profiles BOOKS** 

**Market Research Report** 



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Locate us on

Google Maps

https://goo.gl/maps/BKkUtq9gevT2



## **OUR CLIENTS**

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 <a href="https://goo.gl/G3ICjV">https://goo.gl/G3ICjV</a>



#### 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.

**Visit:** <a href="https://www.entrepreneurindia.co/project-identification">https://www.entrepreneurindia.co/project-identification</a>



#### **Download Complete List of Project Reports:**

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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

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,



Working Capital Requirement, uses and applications, Plant Layout, Project Financials, Process Flow Sheet, Cost of 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 business prospects.....Read more



# Contact us

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# NIIR PROJECT CONSULTANCY SERVICES

AN ISO 9001: 2015 CERTIFIED COMPANY

www.niir.org

www.entrepreneurindia.co



### 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
- O Entrepreneur India (An Industrial Monthly Journal)

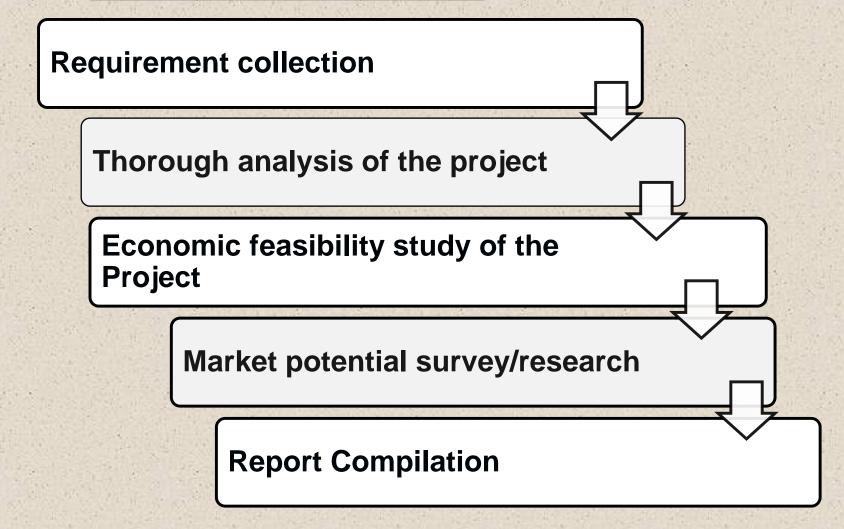


# How are we different?

- 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
- o NRI's
- o Foreign Investors
- Non-profit Organizations, NBFC's
- Educational Institutions
- Embassies & Consulates
- Consultancies
- Industry / trade associations



#### **Sectors We Cover**

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



#### 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...

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



#### 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
- o Inks, Stationery And Export Industries



#### **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
- o Organic Farming, Neem Products Etc.



#### 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
- o Plastic Film, Plastic Waste And Plastic Compounds
- o Plastic, PVC, PET, HDPE, LDPE Etc.



#### 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...

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



# MARKET RESEARCH REPORTS



# **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:
  - Something of the industry

    Something in the
  - &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



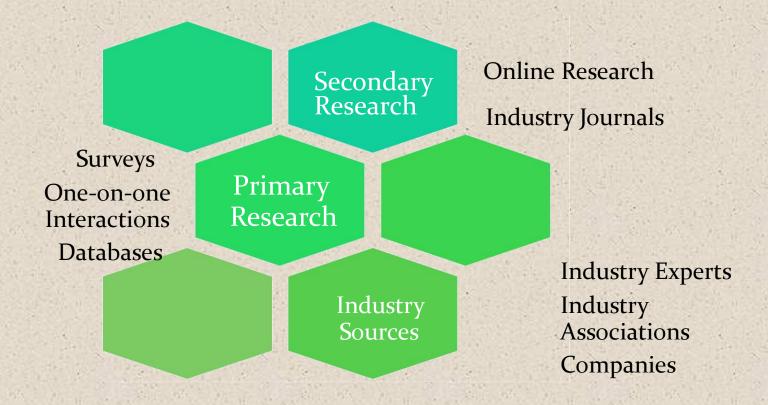
## **Clientele**

- ⊗Venturist/Capitalists
- >> Entrepreneur/Companies
- **∞**Investment Funds
- ∞Foreign Investors, NRI's
- Project Consultants/Chartered Accountants
- **&Banks**
- **∞**Corporates

#### Click here for list



### **Data Sources**



www.niir.org



# Scope & Coverage



www.niir.org



### **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

- •1. Overview
- •2. Market Analysis
  - $\neg 2.1$ Growth Drivers
  - ☐2.2Emerging Trends in the Industry
  - □2.3Regulatory Framework
  - $\square 2.4$ SWOT Analysis
  - □2.5Herfindahl-Hirschman Index (HHI)
- •3. Market Forecasts
- •4. Key Players



# Structure of the Report

Cont

- ≥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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