Y-1611

Manufacturing of Porcelain Insulators

Profitable Investment in Porcelain Electric Insulators Industry

Introduction

Porcelain in most typically used material for overhead insulator in present days. The porcelain is aluminum salt. The atomic number 13 salt is mixed with plastic porcelain clay, spar and quartz to get final laborious and glazed porcelain material. The surface of the insulator ought to be glazed enough in order that water shouldn't be derived on that. Porcelain conjointly ought to be free from porosity since porosity is the main reason for deterioration of its dielectric property. It should even be free from any impurity and bubble within the material which can have an effect on the insulator properties.

Related Projects: - Electrical, Electronic Industries and Power Projects

In atoms that have a large range of electrons within the outer orbit, the combined force of attraction for the nucleus is way stronger, therefore it's more difficult to force a lepton out of orbit, and substances made from these sorts of atoms are referred to as insulators. In alternative words the substances, that strongly oppose flow of electrons through them, are termed as insulators.

Low-tension insulators are used for A.C. & D.C. power supplies of not more than 600 volts. Low tensions insulators are manufactured in both glazed and unglazed insulators are quite satisfactory. Insulators required for use in humid atmosphere are invariably glazed. Glazed insulators are used in lighting arrestors in radio receivers, telephone and utility outfits and neon signs. Some L.T. insulators like nail knobs, tubes & cleats are glazed on one side.

Voltage above 1000 Volts is generally considered as high tension for long distance Electric power transmission; high voltage is essential because it reduces the cross/section and, therefore, the weight of the conductor required. Porcelain insulators are suitable for high tension transmission & distribution are required to be effective at high voltages and under extreme climate conditions of rain, snow, high wind of soaring heat.

Related Projects: - Renewable Energy Sector

Types of Insulators:-

1) Pin insulators.

2) Solid post insulators.

3) Suspension insulators.

4) Hollow insulators.

5) Long rod single piece porcelain insulators.

Uses of Insulator

Insulators are usually used as a flexible coating on electric wire and cable. Since air may be a material, no alternative substance is required to "keep the electricity within the wires." but, wires that bit one another can produce cross connections, short circuits, and hearth hazards. During a coaxial cable, the middle conductor must be supported exactly in the middle of the hollow defend in order to prevent EM wave reflections. And any wires which gift voltages higher than 60V can cause human shock and electrocution hazards. Nonconductive coatings stop all of these problems.

Books:- **BOOKS & DATABASES**

The end kind insulator is used on all distribution lines and on low voltage transmission lines. The main advantage of the pin kind insulator is that it's the cheaper insulator. Another advantage is that a pin stuff requires a shorter pole or tower to produce same clearance of the conductor on top of the cross arm, while the suspension insulator suspends it below the cross arm. On 400 V lines the shackle variety of unit is commonly used. The most usual material for out of doors insulators is porcelain though toughened glass has recently been developed.

Selection of Pin Insulator

Mounting of Insulator

The Applications of Insulators Include the Following.

Thermal Insulators prohibit heat to travel from one position to another. These are used to make thermoplastic bottles, in walls and fireproofing ceilings.

Electrical Insulators stops the electron flow of current through them. These are used in high-voltage systems, circuit boards & also in electric wire coating & cables.

Sound Insulators assist in noise level controlling because they are fine in sound absorbance. Thus, we utilize them in conference halls & buildings to build them noise-free.

Properties of Porcelain Insulator

Property	:	Value (Approximate)
Dielectric Strength	:	60 kV / cm
Compressive Strength	:	70,000 Kg / cm2
Tensile Strength	:	500 Kg / cm2

Technology

- Composite Insulation for Reliability Centered Design of compact HVAC & HVDC
- Design Aspects of UHVDC Equipment
- Microwave Drying and the green properties of high-voltage porcelain Insulators
- Silicone Rubber for Electrical Insulators

Manufacturing Process:

The first process is weighing of all raw materials for a batch system wherever the higher than materials from the storage bins when crushing & grinding and pulverizing to the required fineness are weighed because the required composition and thenceforth directly plunged into a ball mill. The slip is then passed through electro-magnets before discharging in to the provocative tanks for more feeding to the filter press. Within the filter presses, the clay cakes are shaped and more established the needing pug mill to from blanks. These blanks are then formed as insulators. Later the insulators are dried within the drying chambers and so glazed by the manual method. When Glazing, the insulators are loaded on the kiln-cars when careful scrutiny.

Related Videos: - Electrical, Electronic Industries and Power Projects

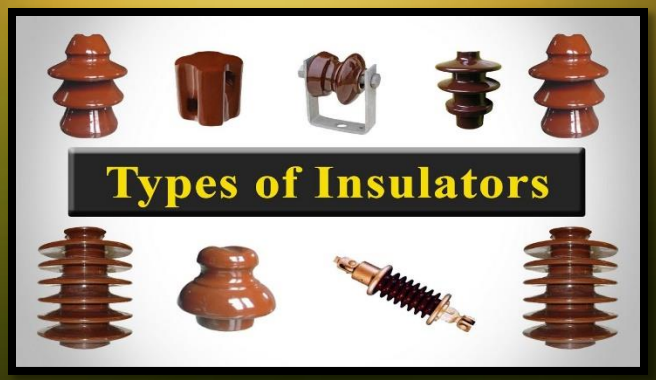
Finally the material is then sorted out by the quality control experts and sent for electrical testing. Insulators, which pass through the electrical tests, are sent for assembly with metal parts. After curing insulators are again tested for electro-Mechanical properties and are packed and sent to the warehouse.

- Milling
- Filtering
- Extruding
- Shaping
- Glazing
- Firing

Advantages of Porcelain Insulators:

- Environmental friendly. At its disposal, the porcelain insulator is not dangerous waste
- In comparison to the polymer, electrical strength of porcelain is higher: 25+ kV/mm v. 20 kV/mm at the polymer
- The porcelain insulator has demonstrably higher resistance to degradation of the surface, does not degrade or carbonate during charges; the conductive path is created very slowly in comparison of the surface of a composite-material insulator
- The ceramic material is resistant to rodents, termites, birds and other animals capable of compromising the integrity of polymers

- The porcelain insulator has a wide scope of application: Contactors, disconnections, equipment transformers, condensers, and grommets also with extreme surface, atypical insulators (filters)
- The porcelain insulator is suitable for extreme hot/cold changes in the environment. It is suitable for environments with dust, salt and high moisture, or for combination of all of the above
- The ceramic material offers very high mechanical strength under pressure and hardness
- The design is modified to suit the environment



Market Outlook

The market for electric insulator is expected to grow at a CAGR of approximately 7.81% during the forecast period of 2020 – 2025. With rapid integration of renewables and distributed technologies onto the grid, utilities are increasingly upgrading their existing infrastructure. The development of renewable-based power generation is expected to result in the expansion of T&D infrastructure, resulting in an increase in demand for electric insulators over the coming years. However, the increasing adoption of underground cables, over overhead, in the T&D infrastructure, is expected to hinder the growth of the demand for electric insulators, in the long run.

Increasing investments in T&D networks, refurbishment of the existing grid networks, and growing adoption of renewable energy sources across the globe are likely to drive the electric insulator market. Increasing investments in smart grid projects and growing demand for HVDC transmission projects can lead to opportunities in the electric insulator market.

Increasing Demand for Ceramic/Porcelain Type Insulators

The ceramic insulators usually have a higher dielectric constant, that doesn't vary abundant with variable temperature, unlike glass, that conducts a lot of electricity at elevated temperatures, i.e., the insulator constant of glass varies with temperature.

The demand for ceramic electrical insulators is expected to be driven by the increasing transmission and distribution network, supported by growing energy consumption, penetration of renewables within the world energy mix, among varied alternative factors.

It is expected that by 2022, the renewable energy capacity growth would be as high as 90%, out of that a significant fraction is probably going to return from big utility-scale projects, which, successively could be a positive indicator for the transmission and distribution market, and consequently a bright market outlook for the ceramic electric insulators within the returning years.

Asia Pacific: The Fastest Growing Market for Electric Insulator Market

The Asia Pacific is estimated to be the fastest growing marketplace for electrical insulator market in 2023 and is projected to grow at the very best CAGR throughout the forecast period. Increase in population, urbanization, and therefore the growth of the industrial sector have increased the demand for power in countries such as China and India. The government of Asia Pacific countries is going to develop a lot of electrical grid and power generation capacity, which might any boost the demand for insulator within the region. Therefore, increasing demand for power and up gradation of existing electrical infrastructure is anticipated to boost the electrical insulator demand in the region.

Key players

- Meister International
- National Switchgears
- ZPE ZAPEL
- Power-grid Switchgears
- PPC Insulators
- Yigang Precision Ceramics
- ABB Ltd. (Switzerland),
- Aditya Birla Nuvo Ltd. (India),
- General Electric, Siemens AG (Germany),

Machinery Photographs

Spraying Machine

Turning Machine

Tunnel Kiln

Hammer Grinder

Project at a Glance

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	71.90	71.90	Capital	0.00	934.87	934.87
Buildings	0.00	1651.00	1651.00	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	927.00	927.00	Other Type Share Capital	0.00	0.00	0.00
Motor Vehicles	0.00	15.00	15.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	163.00	163.00	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	30.00	30.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	2804.62	2804.62
Preliminary& Pre-operative Exp	0.00	1.50	1.50	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	91.00	91.00	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	789.09	789.09				
TOTAL	0.00	3739.49	3739.49	TOTAL	0.00	3739.49	3739.49

Project at a Glance

Year	Annualised		Book Value	Debt	Dividend	Retained Earnings		Payout	Probable Market Price	P/E Ratio	Yield Price/ Book Value
	EPS	CEPS	Per Share		Per Share	Per Share				No.of Times	
	US$	US$	US$	US$	US$	%	US$	%	US$		%
1-2	605.37	965.67	615.37	2400.00	0.00	100.00	605.37	0.00	605.37	1.00	0.00
2-3	870.26	1186.87	1485.63	1800.00	0.00	100.00	870.26	0.00	870.26	1.00	0.00
3-4	1141.88	1420.39	2627.52	1200.00	0.00	100.00	1141.88	0.00	1141.88	1.00	0.00
4-5	1408.29	1653.53	4035.81	600.00	0.00	100.00	1408.29	0.00	1408.29	1.00	0.00
5-6	1667.42	1883.59	5703.23	0.00	0.00	100.00	1667.42	0.00	1667.42	1.00	0.00

Project at a Glance

Year	D. S. C. R.			Debt / - Deposits Debt	Equity as- Equity	Total Net Worth	Return on Net Worth	Profitability Ratio					Assets Turnover Ratio	Current Ratio
	Individual	Cumulative	Overall					GPM	PBT	PAT	Net Contribution	P/V Ratio		
	(Number of times)			(Number of times)		%	%	%	%	%		%		
Initial				3.00	3.00									
1-2	1.39	1.39		1.49	1.49	4.74		4.68 %	2.55%	1.72%	3516.11	10.70 %	3.82	1.10
2-3	1.68	1.53		0.73	0.73	3.16		5.13 %	3.27%	2.12%	3603.68	9.40%	3.99	1.18
3-4	2.04	1.69	2.04	0.33	0.33	2.23		5.44 %	3.81%	2.44%	4106.63	9.38%	4.01	1.27
4-5	2.47	1.86		0.12	0.12	1.66		5.65 %	4.21%	2.67%	4609.57	9.35%	3.95	1.37
5-6	2.99	2.04		0.00	0.00	1.28		5.79 %	4.50%	2.85%	5112.51	9.34%	3.84	1.58

Project at a Glance

BEP	
BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	46.22%
Total BEP (% of Installed Capacity)	50.18%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	29.48%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	32.010

Major Queries/Questions Answered in the Report?

1. What is Porcelain Insulators Manufacturing industry ?

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

3. What is the Project Feasibility of Porcelain Insulators Manufacturing Plant ?

4. What are the requirements of Working Capital for setting up Porcelain Insulators Manufacturing plant ?

5. What is the structure of the Porcelain Insulators Manufacturing Business and who are the key/major players ?

6. What is the total project cost for setting up Porcelain Insulators Manufacturing Business?

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8. What are the machinery and equipment requirements for setting up Porcelain Insulators Manufacturing plant ?

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10. What are the requirements of raw material for setting up Porcelain Insulators Manufacturing plant ?

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

Tags

#porcelaininsulators #porcelaininsulator #electricinsulators #insulator #insulators #porcelain #ceramicinsulator #ceramicinsulators #porcelainbox #GlassInsulators #DetailedProjectReport #businessconsultant #BusinessPlan #feasibilityReport #NPCS #industrialproject #entrepreneurindia #startupbusiness #startupbusinessideas #businessestostart #startupideas #BusinessFeasibilityStudies #technologyindustry #feasibilityReport

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Porcelain Insulators

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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.

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- **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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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*
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- *Business Plan*
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- *Industry Trend*
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- *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 *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
- Essential Oils, Oils & Fats And Allied
- Engineering Goods
- Fibre Glass & Float Glass
- Fast Moving Consumer Goods
- 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
- 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
- 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
- Plastic Film, Plastic Waste And Plastic Compounds
- 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)
- 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:
  - Growth drivers of the industry
  - Latest market trends
  - Insights on regulatory framework
  - SWOT Analysis
  - Demand-Supply Situation
  - Foreign Trade
  - Porters 5 Forces Analysis

Objective

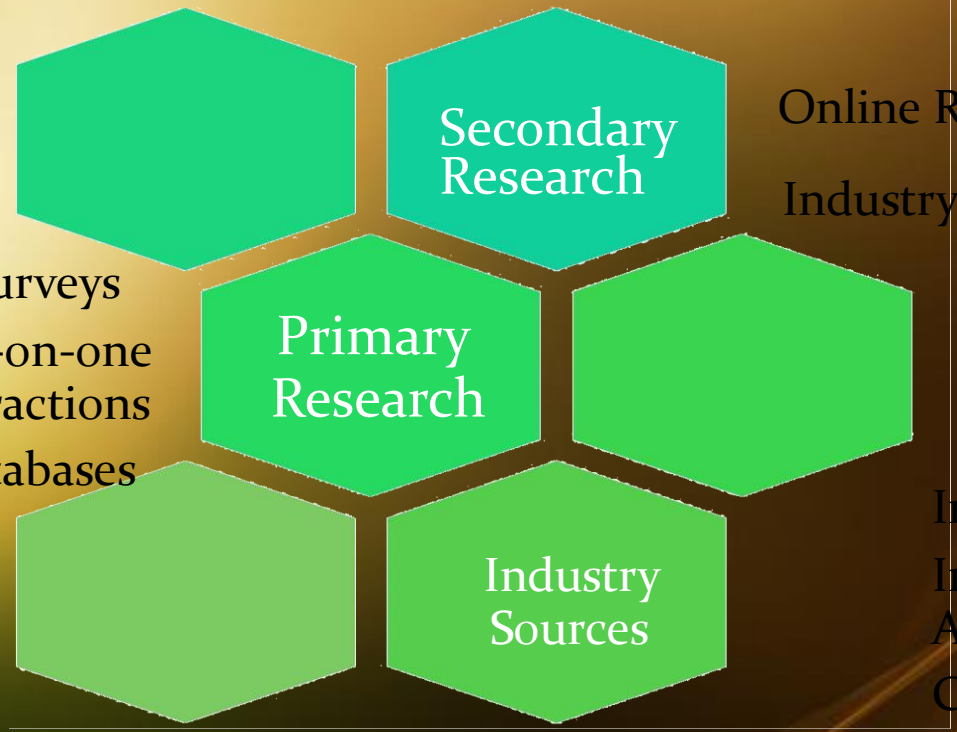
- To provide forecasts of key parameters which helps to anticipate the industry performance
- To help chart growth trajectory of a business by detailing the factors that affect the industry growth
- To help an entrepreneur/manager in keeping abreast with the changes in the industry
- To evaluate the 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



Scope & Coverage

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
  - 2.1Growth Drivers
  - 2.2Emerging Trends in the Industry
  - 2.3Regulatory Framework
  - 2.4SWOT 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

Take a look at NIIR PROJECT CONSULTANCY SERVICES on #Street View

https://goo.gl/VstWkd

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Thank You

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