

Phenolic Formaldehyde Resin (PF)

(Manufacturing Industry, 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, Plant Layout, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis)



INTRODUCTION

Synthetic polymers made from the reaction of phenol or substituted phenol with formaldehyde are known as phenol formaldehyde resins (PF) or phenolic resins. PFs were the first commercial synthetic resins, and they were used to make Bakelite (plastics). They've been used to make moulded goods like billiard balls and laboratory countertops, as well as coatings and adhesives. They were once the predominant material used to make circuit boards, but epoxy resins and fiberglass fabric, as well as fire-resistant FR-4 circuit board materials, have increasingly replaced them. There are two primary methods of processing.



The first reacts phenol and formaldehyde directly to form a thermosetting network polymer, while the second restricts the formaldehyde to form a prepolymer known as novolac, which can be shaped and then cured with more formaldehyde and heat. There are many differences in both the manufacturing and raw materials used to create a wide range of resins for specialized applications. The other method involves using an acid catalyst to react formaldehyde with an excess of phenol.



This process yields a solid prepolymer known as a novolac (or novolak), which is similar to the final polymer except for its lower molecular weight and thermoplastic properties (that is, it can be softened by reheating without undergoing chemical decomposition). Phenolic resins are heat and chemical resistant, making them suitable for use in hazardous environments. They are non-conductive and flame resistant, making them suitable for laboratories and other areas that must conform to fire protection, smoke emission, combustion, and toxicity regulations.



Uses of Phenolic Formaldehyde Resin

Since they shape chemical bonds with the phenol-like lignin portion of wood, phenol-formaldehyde resins are excellent wood adhesives for plywood and particleboard. Because of their high moisture tolerance, they are particularly well suited to exterior plywood. Phenolic resins are often formed into insulating and heat-resistant items like refrigerator handles, distributor caps, and brake linings, and are invariably reinforced with fibres or flakes.



Since phenolic resins have no melting point but only a decomposing point in the temperature zone of use, they are also used to make exterior plywood, also known as weather and boil proof (WBP) plywood.

Since phenolic resins have no melting point but just a decomposing point in the temperature zone of 220 °C (428 °F) and above, they are often used to make exterior plywood known as weather and boil proof (WBP) plywood. In cloth-based loudspeaker driver suspension parts, phenolic resin is used as a binder. The novolak is the other main form of phenolic resin. Excess phenol and an acid catalyst are used in this process. The thermoplastic that results is usually ground into a powder, mixed with a filler, and used in heated and pressurised moulds.



They're commonly used in heat-resistant items like appliance and cookware handles and knobs, as well as electrical connectors. Electrical components such as punch-through boards and household laminates are made with paper phenolic. Glass phenolic are particularly well-suited to high-speed bearing applications. For density regulation, phenolic micro-balloons are used. Phenol formaldehyde resin is also used to make snooker balls and balls for a variety of other table-based ballgames. Phenolic resin is used as a binding agent in natural (organic) brake pads, brake shoes, and clutch discs.



Production Process

The first polymeric resins made commercially from simple low molecular weight compounds were phenolic or PF resins. The poly condensation of phenol and formaldehyde in the presence of an acid or a base catalyst produces these. The form of catalyst and the mole ratio of reactants determine the quality of the chemical. There are two forms of initial phenol-formaldehyde reaction products: novolacs and resoles.



There are two primary methods of processing. The first reacts phenol and formaldehyde directly to form a thermosetting network polymer, while the second restricts the formaldehyde to form a prepolymer known as novolac, which can be shaped and then cured with more formaldehyde and heat. There are several different types of manufacturing and raw materials used to make a wide range of resins for various applications. There are two simple methods for converting polymers into usable resins in industrial practice.



An excess of formaldehyde is reacted with phenol in water solution in the presence of a base catalyst to create a low-molecular-weight prepolymer called resole. By sandwiching the resole between layers of wood veneer and then heating the assembly under pressure to form plywood, the resole, which is often in liquid form or solution, can be cured to a solid thermosetting network polymer.

Market outlook

Bakelite was a phenol-formaldehyde resin that was one of the first synthetic polymers to be commercialized. It's been used as an insulator for switches and other electric devices for quite some time. Phenol formaldehyde has an uncomfortable dark colour due to the presence of phenol groups. Many products, such as rotting fruit or yellowed white fabric, darken as phenol-formaldehyde resin binds directly without CH₂ bridges, creating condensed aromatic rings that are black in colour and are responsible for the darkening of many products.



The Phenol Formaldehyde Resin Market report analyses the market size, share, growth potential, and future prospects of the Phenol Formaldehyde Resin market. The Asia Pacific phenol-formaldehyde resin market is expected to grow due to increased demand from the building and construction industry. The automotive and electronics industries are also expected to raise demand for phenol-formaldehyde resin.

Synthetic polymers made by reacting phenol with formaldehyde are known as phenol-formaldehyde resins. These resins have excellent chemical and physical properties, including high mechanical strength, heat resistance, low toxicity, and low smoke production.



These properties of resins have aided in the expansion of the phenolic resin industry. The global phenolic resin market has been driven by advanced properties of phenolic resin and high demand from various industries such as building, furniture, automotive, and others. While environmental regulations and fluctuating raw material prices can stifle overall growth on a global scale.



Key Players

- Amity Thermosets Pvt. Ltd.
- Kothari Phytochemicals & Inds. Ltd.
- Resins & Plastics Ltd.
- Tipco Polymers Pvt. Ltd.



Machinery Photographs



REACTION VESSEL



CONDENSER





STORAGE TANK



COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	23.00	23.00	Capital	0.00	36.10	36.10
Buildings	0.00	38.60	38.60	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	34.51	34.51	Other Type Share Capital	0.00	0.00	0.00
Motor Vehicles	0.00	8.00	8.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	16.00	16.00	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	5.00	5.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	108.29	108.29
Preliminary & Pre-operative Exp	0.00	3.00	3.00	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	3.00	3.00	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	13.28	13.28				
TOTAL	0.00	144.39	144.39	TOTAL	0.00	144.39	144.39

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		
	`	`	`	`	`	%	`	%	`			%
1-2	5.97	9.58	15.97	24.00	0.00	100.00	5.97	0.00	5.97	1.00		0.00
2-3	9.52	12.68	25.50	18.00	0.00	100.00	9.52	0.00	9.52	1.00		0.00
3-4	12.93	15.70	38.43	12.00	0.00	100.00	12.93	0.00	12.93	1.00		0.00
4-5	16.14	18.57	54.57	6.00	0.00	100.00	16.14	0.00	16.14	1.00		0.00
5-6	19.11	21.26	73.68	0.00	0.00	100.00	19.11	0.00	19.11	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	1.41	1.41		1.50	1.50	2.38		12.82%	7.24%	4.95%	192.14	44.11%	2.29	1.06
2-3	1.82	1.60		0.71	0.71	1.34		15.10%	10.40%	6.76%	222.51	43.78%	2.41	1.36
3-4	2.28	1.81	2.26	0.31	0.31	0.79		16.61%	12.57%	8.04%	254.26	43.78%	2.38	1.73
4-5	2.80	2.03		0.11	0.11	0.48		17.58%	14.04%	8.92%	286.01	43.77%	2.26	2.14
5-6	3.39	2.26		0.00	0.00	0.31		18.17%	15.02%	9.50%	317.76	43.77%	2.10	3.27

BEP

BEP - Maximum Utilisation Year

5

Cash BEP (% of Installed Capacity)

63.16%

Total BEP (% of Installed Capacity)

65.59%

IRR, PAYBACK and FACR

Internal Rate of Return .. (In %age)

29.78%

Payback Period of the Project is (In Years)

2 Years 3 Months

Fixed Assets Coverage Ratio (No. of times)

8.928

Major Queries/Questions Answered in the Report?

1. What is Phenolic Formaldehyde Resin Manufacturing industry ?

2. How has the Phenolic Formaldehyde Resin Manufacturing industry performed so far and how will it perform in the coming years ?

3. What is the Project Feasibility of Phenolic Formaldehyde Resin Manufacturing Plant ?

4. What are the requirements of Working Capital for setting up Phenolic Formaldehyde Resin Manufacturing plant ?

5. What is the structure of the Phenolic Formaldehyde Resin Manufacturing Business and who are the key/major players ?

6. What is the total project cost for setting up Phenolic Formaldehyde Resin Manufacturing Business?

7. What are the operating costs for setting up Phenolic Formaldehyde Resin Manufacturing plant ?

8. What are the machinery and equipment requirements for setting up Phenolic Formaldehyde Resin Manufacturing plant ?



9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Phenolic Formaldehyde Resin Manufacturing plant ?

10. What are the requirements of raw material for setting up Phenolic Formaldehyde Resin Manufacturing plant ?

11. Who are the Suppliers and Manufacturers of Raw materials for setting up Phenolic Formaldehyde Resin Manufacturing Business?

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

Tags

#DetailedProjectReport **#businessconsultant** **#BusinessPlan**
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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**
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- 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](#)

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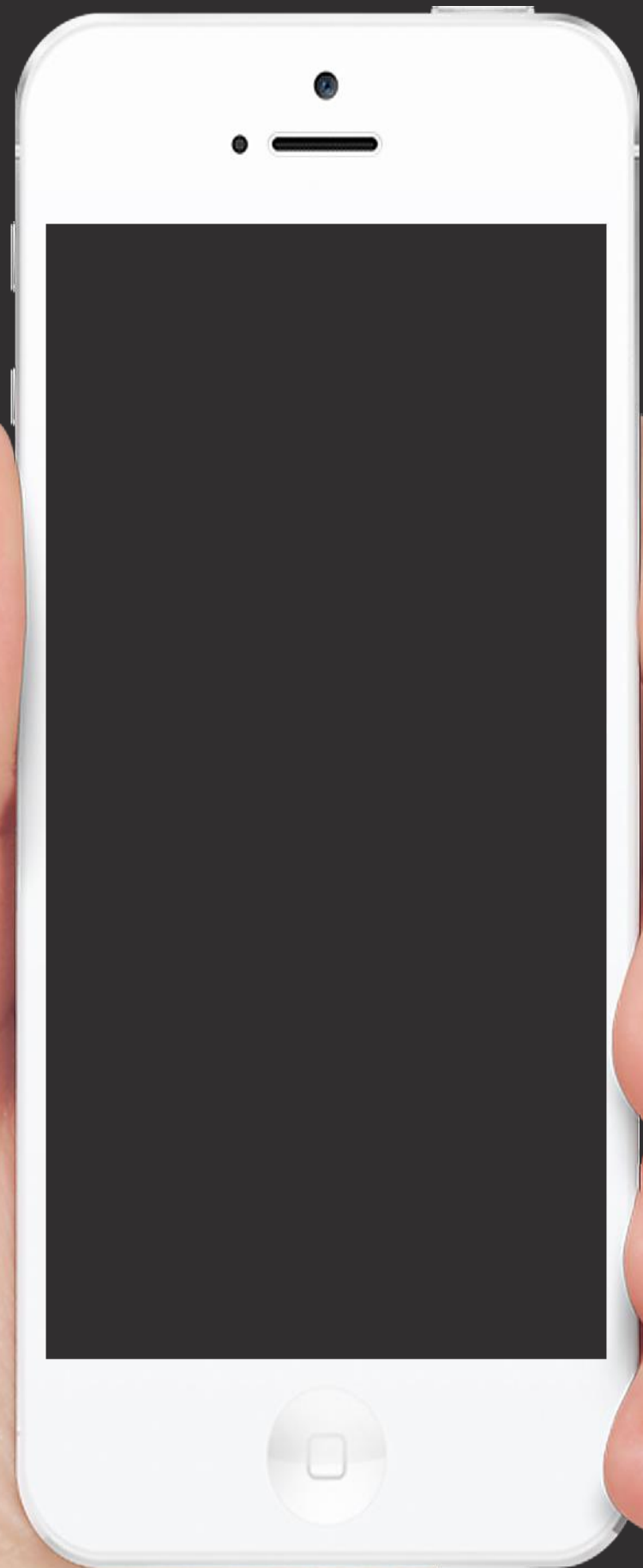
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Who are we?

- **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 NPCCS 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 *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 & Hospitality 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

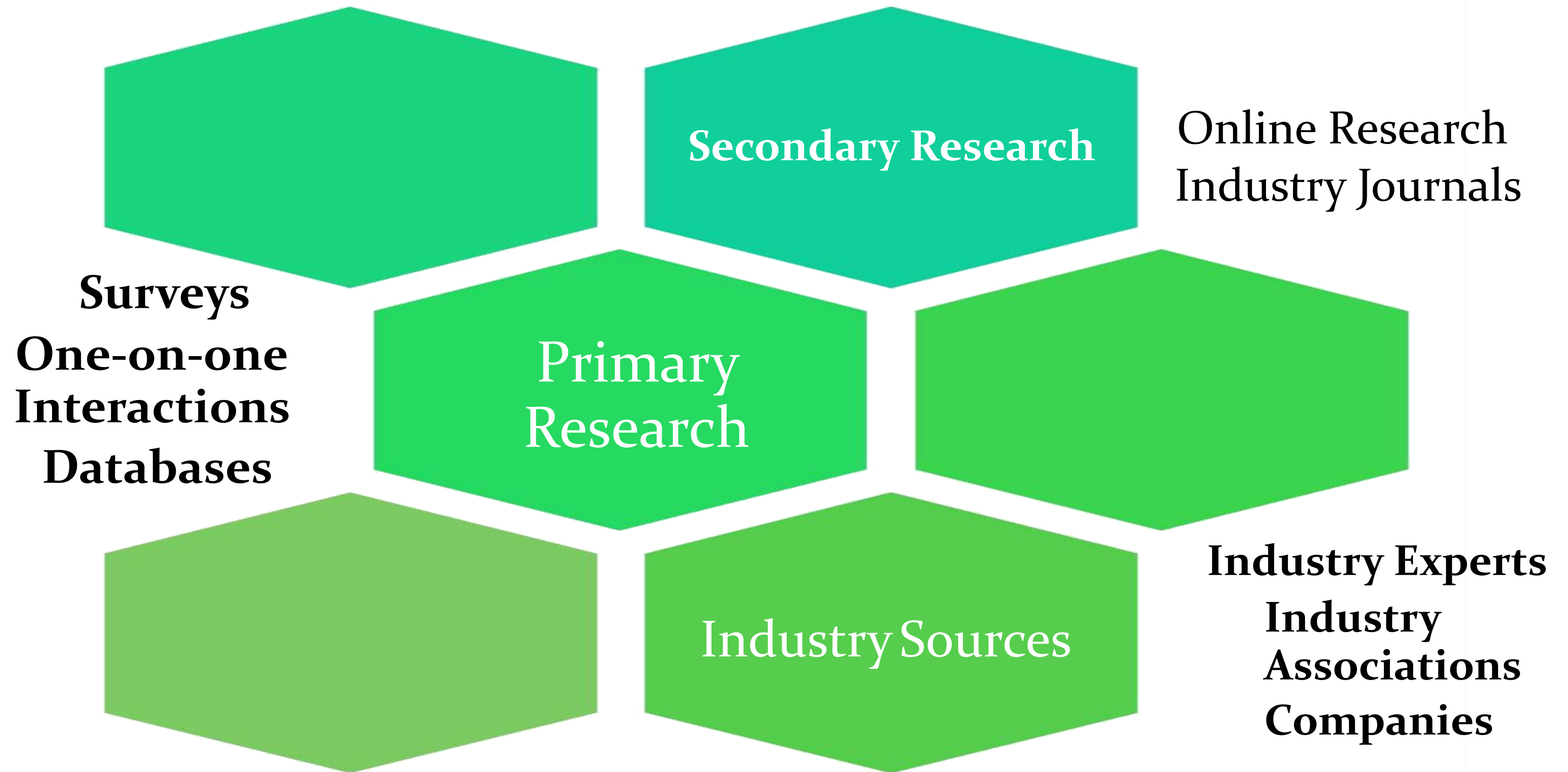
- To provide forecasts of key parameters which helps to anticipate the industry performance**
- To help chart growth trajectory of a business by detailing the factors that affect the industry growth**
- To help an entrepreneur/manager in keeping abreast with the changes in the industry**
- To evaluate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

- **Overview**
- **Market Analysis**
 - **Growth Drivers**
 - **Emerging Trends in the Industry**
 - **Regulatory Framework**
 - **SWOT Analysis**
 - **Herfindahl–Hirschman Index (HHI)**
- **Market Forecasts**
- **Key Players**

Structure of the Report

- **Key Financials and Analysis**
 - Contact Information**
 - Key Financials**
 - Financial comparison**
- **Industry Size & Outlook**

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#Street View

<https://goo.gl/VstWkd>

Contact us

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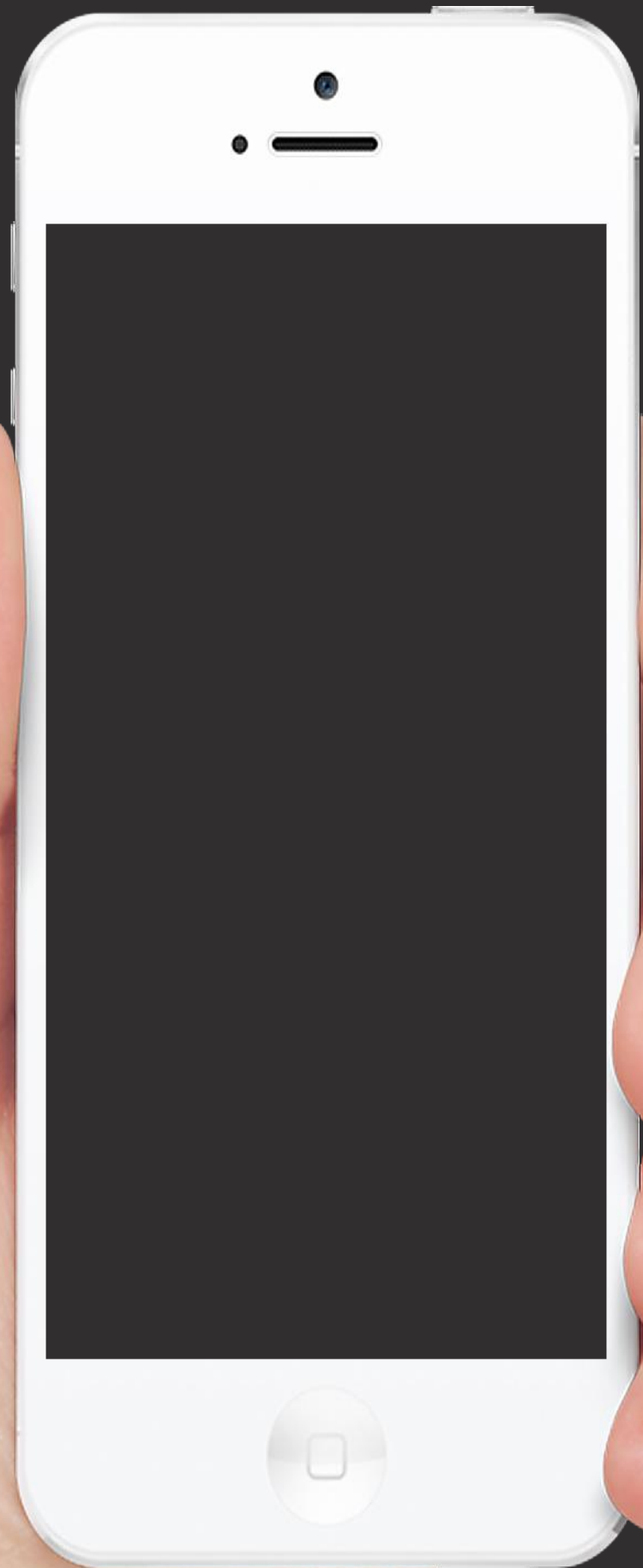
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