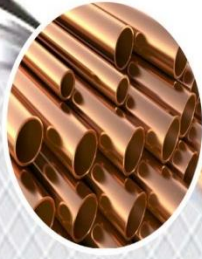


# **The Complete Technology Book on Electroplating, Phosphating, Powder Coating and Metal Finishing (2nd Revised Edition)**

**The Complete  
Technology Book on  
Electroplating,  
Phosphating,  
Powder Coating  
and  
Metal Finishing**



# **Introduction**

Electroplating is the process of depositing a metal coating onto the surface of an object through the use of an electrical current. Electroplating has evolved into a highly complex process requiring a high level of precision and expertise. Phosphating is the process of converting a steel surface to iron phosphate. This is mostly used as a pretreatment method in conjunction with another method of corrosion protection.

**Related Projects:** - **Electroplating, Metal Polishing, Anodizing, Phosphating, Metal Finishing and Powder Coating projects**



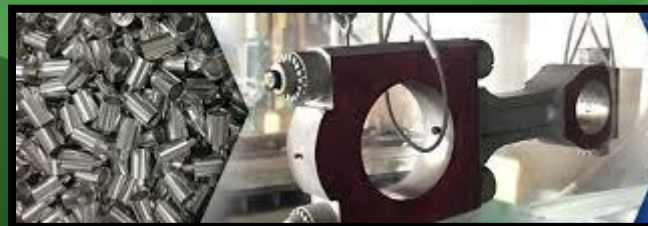
## Common Electroplating Applications and Industries

Electroplating is everywhere. From automotive trim to the parts of the last rocket ship you watched get launched into space, electroplated materials are used for their versatility, their conductivity, their appearance, and more.

Here are a few examples of common applications:

**EMI Shielding in Electronics:** Electromagnetic interference (EMI) is a concern in any situation involving electronic systems. EMI shielding using electroplating can protect a device or cabling, so that conflicting signals and interference are blocked. EMI shielding can also be used to help prevent power degradation issues in cables.

**Related Books:- Electroplating, Anodizing, Metal Treatment, Powder Coating, Metal Finishing, Electrochemical, Electroplating Chemicals**



**Chrome plating in automotive trim:** Your “chrome” bumper may not actually be chrome. It’s most likely made from injection-molded ABS plastic, plated with a thin layer of copper, nickel, and chromium so that it’s super shiny, more resistant to rust, and not as easy to scratch.

**Hard chrome plating on high wear surfaces:** Hard chrome plating is used to increase the hardness, durability, and corrosion resistance on high wear surfaces. Chromium metal is used to add a hard, durable surface finish with improved wear, even in extreme situations. Parts last longer and resist corrosion, and chromium is less likely to wear away in harsh environments.

**Related Videos:- [Electrical, Electronic Industries and Power Projects](#)**



Electroplating is widely used in industry and decorative arts to improve the surface qualities of objects—such as resistance to abrasion and corrosion, lubricity, reflectivity, electrical conductivity, or appearance. It may also be used to build up thickness on undersized or worn-out parts, or to manufacture metal plates with complex shape, a process called electroforming. It is also used to purify metals such as copper.

The term "electroplating" may also be used occasionally for processes that use an electric current to achieve oxidation of anions on to a solid substrate, as in the formation of silver chloride on silver wire to make silver/silver-chloride electrodes. Electro polishing, a process that uses an electric current to remove metal captions from the surface of a metal object, may be thought of as the opposite of electroplating.

**Related Book:- The Complete Technology Book on Electroplating, Phosphating, Powder Coating and Metal Finishing (2nd Revised Edition)**

## **Three Different Types of Electroplating Process:**

Tank plating process is the most popular and useful process that is suitable for all types of electroplating or electroforming processes. It produces a high quality surface of plating objects and allows you to plate many items at the same time. You can also clean or electro-polish the plating objects in a tank as well. Using this process you can plate many objects inside and outside as well. It is very quick (plating time is usually 30-60 seconds) but this process requires equipment such as a power supply (rectifiers), tanks, anodes, cathode turning stands, heating and agitation systems.

**Related Projects: - Electroplating, Metal Polishing, Anodizing, Phosphating, Metal Finishing and Powder Coating projects**



This equipment is very useful because it allows you to do many additional processes such as electro cleaning, stripping, electro etching and electro polishing. Usually each process, including rinsing, requires one tank with a correct solution. For example: just deep plating objects in a cleaning tank first, then take it out and deep it in a rinsing tank with tap water and finally deep it in a tank with the plating solution. Switch ON your power supply (rectifier) and wait for few seconds (it depends of the process) and then you will find your item fully plated.

**Projects:- Project Reports & Profiles**



2. The Brush plating process is widely used to plate fixed items like kitchen and bath taps, showers, tubes etc. It gives you a good quality of plated surface if you are experienced enough and if the object for this process has been prepared properly. The chemicals for this process are more expensive (if compared against tank plating chemicals) because they are more concentrated and you will be able to plate only one object at a time. However for brush plating process you have to know that objects can be plated outside only. This process is fully suitable only for Gold, Silver, Nickel, Copper and Chrome plating. If you wish to plate your objects in other metal (like zinc, tin, bronze etc) then you will have no choice but to use a tank plating process to get a good quality of plating surface).

**Books:- BOOKS & DATABASES**





3. The Pen plating process can be used to plate very small details, or individual small parts on a large object. For example, you can plate the fingernails or eyebrows on a bronze statue in silver. Pen plating is suitable only for Copper, Gold, Rhodium and Silver plating process.

Powder coating is a finishing process in which a coating is applied electrostatically to a surface as a free-floating, dry powder before heat is used to finalize the coating. The powder can be made of any number of products: polyester, polyurethane, polyester-epoxy, straight epoxy, and acrylics. Metal finishing is the final step in the manufacturing process used to provide aesthetics and environmental protection.

**Market Research: - Market Research Report**



A popular metal finishing process, electroplating is used in a variety of industries for a wide range of applications. The electroplating process uses an electric current to deposit a thin layer of material on top of an object. It's primarily used to increase wear resistance, protect against corrosion, increase thickness, or change the aesthetic appeal of an object. In aerospace, automotive, computer, military, space exploration, medical device, healthcare, telecom, and other industries, it's also used to add conductivity, heat resistance, help prevent oxidation, and to meet the demands of engineering teams for unique material combinations.

### **Common Electroplated Finishes**

Electroplating can be done using several metals, including gold, platinum, rhodium, nickel, copper, tin, and, along with alloys made with a combination of these metals with others.

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## Benefits of Electroplating:

Why is electroplating used in so many industries, for both industrial and consumer applications? Because it's incredibly versatile. Here are some of the benefits of manufacturing and product applications:

**Protective barrier:** Electroplated parts can last longer with the protective barrier that's applied during electroplating. They can hold up better under extreme heat and cold conditions, and more readily resist corrosion.

**Improve aesthetics:** Electroplating is commonly used to enhance the appearance of products, from jewelry to automotive interiors. It's cost-effective and can be used to create a look of luxury.

**Reduce friction:** Electroplating can improve performance, by reducing friction in products like electrical connectors. Nickel plating is frequently used for this purpose.

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**Electricity conductivity:** Silver plating enhances electrical conductivity, a cost-effective and efficient option for manufacturers of electrical components, and electronic products.

**Oxygen absorption:** Electroplating an item with palladium absorbs excess oxygen from the manufacturing of automotive catalytic converters, improving their performance.

**Whisker prevention:** An alloy of zinc and nickel can help prevent the formation of whiskers, which are sharp protrusions that can occur during manufacturing operations. These whiskers can cause damage from arcing and shorts in electrical parts and components. Electroplating with this zinc-nickel alloy can significantly reduce this type of damage.

**Projects:- [Project Reports & Profiles](#)**



**Heat resistance:** Gold and zinc-nickel alloys can be electroplated onto engine parts and components to reduce damage from extreme temperatures. This increases the parts/components lifespan and means they can better withstand extremely high temperatures.

**Hardness:** Electroplating can be used to make surfaces harder, making brittle materials much stronger and extending the lifespan of the plated object. Plated surfaces are also less susceptible to damage from being dropped or struck.

**Added adhesion:** Copper is often electroplated onto a piece when it needs to have a smoother and uniform finish. It's an ideal way to provide an undercoating for adhesion or for additional plating with other materials.

**Added thickness:** There are times when a product needs to have an added thickness for the overall quality and longevity of the finish. Copper-nickel plating is a popular choice in manufacturing situations that call for higher thicknesses.

## Uses of Electroplating

Talking about the uses of electroplating, apart from enhancing the appearance of the substrate it is used in various other purposes as well. The major application is to optimize a material's resistance towards corrosion. The plated layer often serves as a sacrificial coating which reveals that it dissolves before the base substance. Some of the other common applications of electroplating involve:

Improving wear resistance.

Improving the thickness of the metal surface.

Enhancing the electrical conductivity like plating a copper layer on an electrical component.

Minimizing Friction.

Improving surface uniformity.

**Books:- BOOKS & DATABASES**

## Applications of Electroplating

Electroplating is widely used in numerous sectors for coating metal objects with a thin layer of a different metal. The added metal has a desired property the original object lacks and is primarily used to improve corrosion resistance. Chromium plating is a great example. So much so that you'll see it on many objects such as car parts, bath taps, gas burners, wheel rims and many others.

Other uses include:

Increase wear resistance

Protect against surface abrasions

Reduce friction

**Market Research: - Market Research Report**



Improve electrical conductivity (copper layer onto an electrical component)

Prepare surfaces for better adhesion before painting or re-coating

Common metals used in electroplating include zinc, copper and tin but also precious metals like gold, silver and palladium. Plating is possible using single metals or with various combinations (alloys) that can provide additional value to the electroplating process. Silver and Tin are essential finishes for components that are designed to carry heavy electrical currents.

The electroplating market mostly is driven by the electronics and electrical industry and followed by the automotive industry. The demand for electroplating is rising rapidly from the end user industries which propel the growth of the market.

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The increasing demand for durable metals and growing use of adaptable manufacturing processes for a wide range of applications in the automotive, aerospace & defense, and electrical & electronics industries are likely to boost the demand for electroplating. With the growing demand for high-performance automobile components having excellent resistance to corrosion to enhance the appearance of exterior automobile parts, such as emblems, door handles, hood ornaments, and wheel rims, is driving the demand for electroplating and likely to continue owing to the increasing automobiles production in Asia-Pacific and other emerging economies in the Middle East & Africa. The zinc-nickel electroplating is one of the popular methods of electroplating in the automotive industry.

**Related Book:- [The Complete Technology Book on Electroplating, Phosphating, Powder Coating and Metal Finishing \(2nd Revised Edition\)](#)**

## **Market Growth:-**

The growing end-use industry is fuelling the growth of the market. Electroplating is widely used in industries for a variety of technological and decorative applications. With the advent in Industry 4.0, R&D within metal finishing is rising, the demand for durable metals with the adaptable manufacturing process is rising, from automotive to aerospace to Jewellery and machinery. Innovations are being brought to improved quality of electroplating, and to expand the markets for a decorative electroplated nickel or chromium plating owing to the rising requirement of the exceptional corrosion performance of decorative multilayer in automotive decorative plating.

**Market Research: - Market Research Report**



However, increasing concern over toxic wastes produced by conventional metal finishing operations in the electroplating process and a growing push to develop alternative clean technology is predicted to hinder the growth of the market. The global electroplating market is projected to reach US\$ 21.9 billion by the end of 2027, in terms of revenue, growing at CAGR of 3.7% during the forecast period (2019 to 2027).

Ongoing industrialization around the globe especially in the Asia Pacific region, along with increasing disposable income in the developed countries of Asia Pacific is fueling the demand for electroplating across electronics, automotive, and jewelry industry. According to the Coherent Market Insights analysis, Asia-Pacific is projected to register a CAGR of 4.6% due to robust demand across end-use industries. Therefore, ongoing industrialization is expected to fuel the market growth of electroplating.

**Projects:- [Project Reports & Profiles](#)**

Rising demand for electroplating from aerospace and defense application for providing proper finishing to the machinery is expected to foster the market growth of electroplating. The finishing usually involves the process of coating metal that sticks to the surface of material and provide a protective bond. Moreover, the process also provides corrosion resistance, electrical conductivity, heat resistance, and friction wear to the machinery in the defense industry. Therefore, rising demand for electroplating for the aforementioned application in the defense industry is propelling the market growth.

**Books:- BOOKS & DATABASES**



The book cover various aspects related to different Electroplating, Phosphating, Powder Coating and Metal Finishing with their manufacturing process and also provides contact details of machinery suppliers with equipment photographs and plant layout.

A total guide to manufacturing and entrepreneurial success in one of today's complete process of electroplating to metal finishing in industry. This book is one-stop guide to one of the fastest growing electroplating, Phosphating, powder coating and metal finishing industry, where opportunities abound for manufacturers, retailers, and entrepreneurs. The book serves up a feast of how-to information, from concept to purchasing equipment.

**Market Research: - [Market Research Report](#)**



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Barrel Plating Technique

Silvering

Spray Silvering

Solution Composition

Operating Procedure

Sensitiser

Immersion Silvering

Operating Procedure

Electroplating on Silvered Surfaces

Jigging

Special Techniques Used In Printing Applications

Metallising with Copper Bronze Powder  
Preparation  
Metallising  
Electroplating  
Polishing with Powered Graphite  
Vacuum Evaporation and Electrical Sputtering

## **12. PHOSPHATING PROCESSES**

Applications  
Pre-treatment Prior to Organic Coatings  
Protection against Corrosion  
Anti-wear Coatings  
Phosphating as a Production Aid  
Types of Phosphate Coating  
Iron Phosphate  
Zinc Phosphate  
Manganese Phosphate

Lead Phosphate

Surfaces To Which Phosphate Coatings May Be Applied

Preparation of Surfaces for Phosphating

Specifications

British Standard 1389: 1973 Phosphate Treatment of Iron and Steel

DEF STAN 03-11/1 Phosphate Treatment of Iron and Steel

Treatment of High Tensile Steels

Equipment for Phosphating

Immersion Phosphating Plant

Spray Phosphating Equipment

Tanks

Solution Heating

Fume Extraction

Sludge Removal

Phosphating Processes

Key to Table

Light Weight Iron Phosphate Processes

Canphos 301  
Canphos 304  
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Solution Composition and Operating Conditions  
Preparation of the 300 Range Phosphating Solutions  
Operating Sequences  
Solution Maintenance  
Heavy Zinc Phosphate Processes  
Equipment  
Canphos  
Canphos  
Solution Composition and Operating Conditions  
Preparation of the 400 Range of Phosphating Solutions  
Solution Maintenance  
Visual Control  
Calcium Modified Zinc Phosphate Processes  
Canphos

Canphos

Canphos

Equipment

Solution Preparation

Operating Sequences

Solution Maintenance

Addition Rates

Light Weight Zinc Phosphate Processes

Canphos

Canphos

Solution Composition and Operating Conditions

Solution Preparation

Solution Maintenance

Addition Rates

ManganEsE Phosphate Processes

Canphos

Equipment

Solution Composition

Operating Conditions

Solution Preparation

Operating Sequences  
Solution Maintenance  
Phosphating Process Sequences  
Pre-Treatment Processes  
Alkaline Cleaners  
Equipment  
Maintenance  
Defoaming  
Pickling and Derusting  
Conditioning  
Post Phosphating Treatments  
Sealing Treatment  
Chromic Rinse Solution (DEF STAN 03-11/1)  
Equipment  
Oils and Lubricants  
Black Finishes  
Sealphos 721 Black Stain  
Sealphos 708 Matt Black  
Aluminium Pre-Treatment  
Alibond 802

Equipment

Solution Composition

Operating Conditions

Operating Sequence

Solution Maintenance

Solution Analysis

General Phosphating Information

Sludge Removal

Control of Solution Composition and Chemical Balance

Effluent Treatment

## **13. ELECTROPAINTING OF ALUMINIUM**

The Process

Principles of Electropainting

Process Details

Jigging

Pre-treatment

Paint Application

4 Rinsing and Ultrafiltration

Stoving

Costs

Conclusion

Developments

The Future



## **14. POWDER COATING OF ALUMINIUM**

Method of Application

Equipment

Electrostatic Generator and Gun

Powder Recovery

Stoving

Powder Coating Production

Colour

Thermoplastic Powder Coatings

Polyethylene (Polythene)

PVC

Nylon

Factors Affecting Use of Thermo-plastic Coatings

## **15. BRIGHT NICKEL ELECTROPLATING**

Brighteners

Levellers

Stress Relievers

Wetting Agents

Properties of electro-deposited bright nickel

Brightness

Reflectivity

Roughness and Pitting

Porosity

Corrosion Resistance

Chromability

Adhesion and Surface Preparation

Ductility

Internal Stress

Hardness

Effect of hydrogen absorption

Properties of Bright Nickel Baths

Stability

Cathode and anode efficiencies

Operating range

Simplicity of operation

Throwing power

The incorporation and effect of organic addition agents

Mechanisms of incorporation of organic compounds in electro-deposits

Cathodic Reduction

Interaction of organic additions

Levelling

Effect of additives on structure

Grain size, orientation and brightness of electro-deposits

Effect of additions on stress, ductility and hardness

Stress first decreases, then rises as concentration is increased.

## **16. BIS SPECIFICATIONS**

## **17. PHOTOGRAPHS OF MACHINERY WITH SUPPLIER'S CONTACT DETAILS**

Electroplating Rectifiers

Electroplating Process Tank

Rotating Barrel

Auto Stat

Automatic Voltage Controller

Automatic Powder Coating Plant

ED Coating Plant / CED Coating Plant

Control panels

Advance Controller

Painting Booth

Metal Finishing Machines

Rotary Dryers

Shot Blasting

Vibratory Finishing Machines

Polyamide (Glide) Coating

Zinc Plating Plants

Material Handling System

Flocking Units

Electric Oven

Industrial Oven

Plating Barrel

Servo Stabilizer

## **18. PLANT LAYOUT AND PROCESS FLOW SHEETS**

# Tags

**#electroplating** **#electroplatingmarket**  
**#electroplatingmarketgrowthandsize** **#electroplating**  
**#electroplatingindustry** **#ElectroplatingManufactirng**  
**#PhosphatingManufactirng** **#PowderCoatingManufactirng**  
**#MetalFinishingManufactirng** **#electroplatingBusinessPlan**  
**#electroplatingproduction** **#Newbook** **#NewRelease** **#Businessbook**  
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**#StartupIdea #NPCS #DetailedProjectReport**

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<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**  
**<https://goo.gl/G3ICjV>**

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### **(Instant Online Project Identification and Selection)**

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**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**



## Who are we?

- *One of the leading reliable names in industrial world for providing the most comprehensive technical consulting services*
- *We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad*

*We at NPCS want to grow with you by providing solutions scale to suit your new operations and help you reduce risk and give a high return on application investments. We have successfully achieved top-notch quality standards with a high level of customer appreciation resulting in long lasting relation and large amount of referral work through technological breakthrough and innovative concepts. A large number of our Indian, Overseas and NRI Clients have appreciated our expertise for excellence which speaks volumes about our commitment and dedication to every client's success.*

*We bring deep, functional expertise, but are known for our holistic perspective: we capture value across boundaries and between the silos of any organization. We have proven a multiplier effect from optimizing the sum of the parts, not just the individual pieces. We actively encourage a culture of innovation, which facilitates the development of new technologies and ensures a high quality product.*

## What do we offer?

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

## How are we different ?

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

# Our Approach

Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation

## Who do we Serve?

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



## Sectors We Cover

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

## Sectors We Cover *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

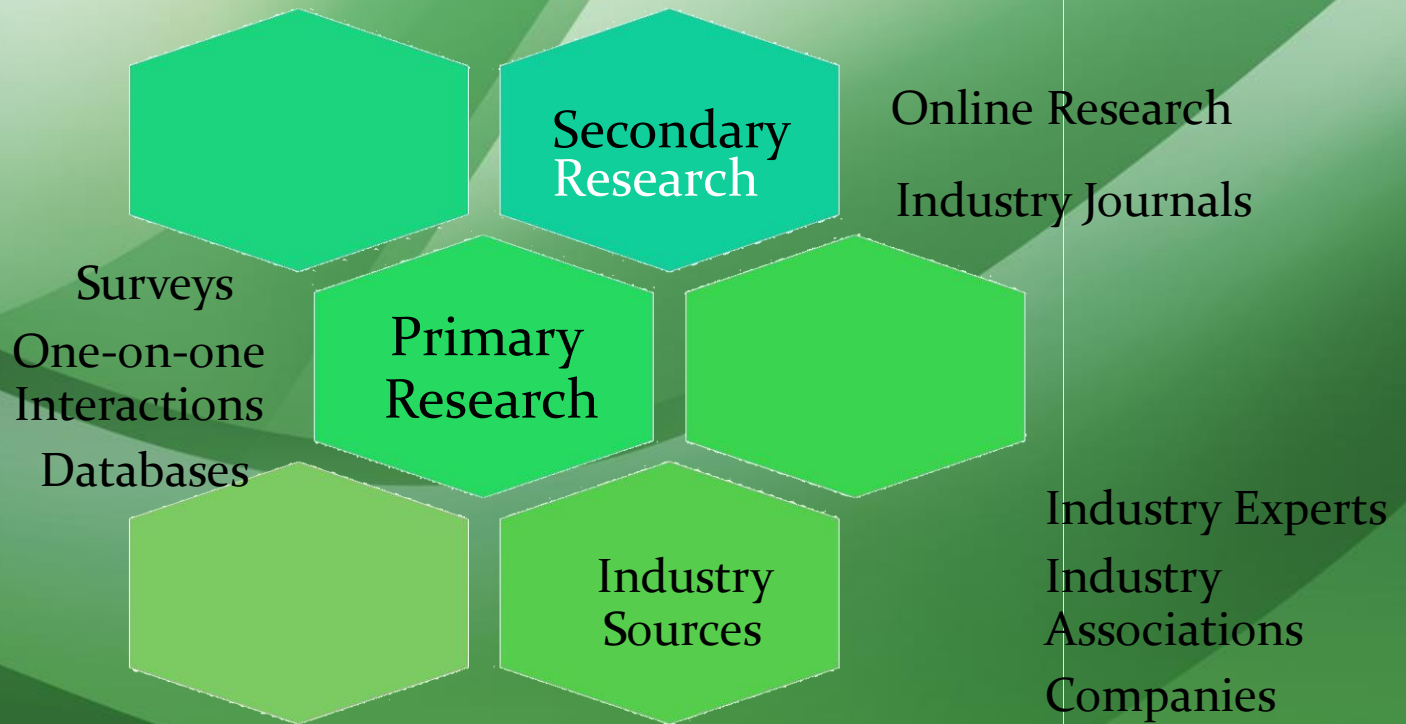
- ⌘ To provide forecasts of key parameters which helps to anticipate the industry performance
- ⌘ To help chart growth trajectory of a business by detailing the factors that affect the industry growth
- ⌘ To help an entrepreneur/manager in keeping abreast with the changes in the industry
- ⌘ To evaluate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

- 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

*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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