

# **Metal Finishing, Electroplating, Anodizing, Phosphating, Metal Polishing and Powder Coating**

*(Hot Dip Galvanizing Plant, Corrugated Galvanized Sheet, Transmission Towers & Tele  
Communication Towers with Galvanizing Plant)*

## **Start-Up Projects for Entrepreneurs**

# Introduction

**Electroplating is the process of plating one metal onto another by hydrolysis, most commonly for decorative purposes or to prevent corrosion of a metal. There are also specific types of electroplating such as copper plating, silver plating, and chromium plating. Electroplating allows manufacturers to use inexpensive metals such as steel or zinc for the majority of the product and then apply different metals on the outside to account for appearance, protection, and other properties desired for the product.**



## The Metals Most Commonly Used in Plating are:

- **Copper**
- **Nickel**
- **Gold**
- **Silver**
- **Chrome**
- **Zinc**
- **Tin**

**Electroplating is also known as electrodeposition and electroplated coating.**

## **How Does the Electroplating Process Work?**

**Both an anode and a cathode (the metal part to be coated) are immersed in an electrolytic bath that is composed of a solution of salts, including the metal to be plated. A direct current (DC) of electricity is passed through the solution, effecting the transfer of metal ions onto the cathodic surface, plating the metal onto the item.**



**The electroplating process is quite similar to the electroforming process: both are a form of additive manufacturing, and both work through an electrodeposition process.**

## **Market outlook**

**The global electroplating market is expected to increase at an average CAGR over the forecast period.**

**The global electroplating market was valued above US\$ 14,540.5 Mn in 2016 and is expected to expand at a CAGR of 3.7% to cross US\$ 21,160.0 Mn by the end of 2026.**



**The global electroplating market was dominated by Europe and U.S. but now its gaining traction in the Asia-Pacific region; due to the increased demand for consumer goods in countries such as China & India, which mandates more surface finishing services. The global electroplating market is expected to register a double-digit CAGR for the forecast period.**

**Depending on geographic regions, global electroplating market is segmented into seven key regions: North America, South America, Eastern Europe, Western Europe, Asia Pacific, Japan, and Middle East & Africa.**

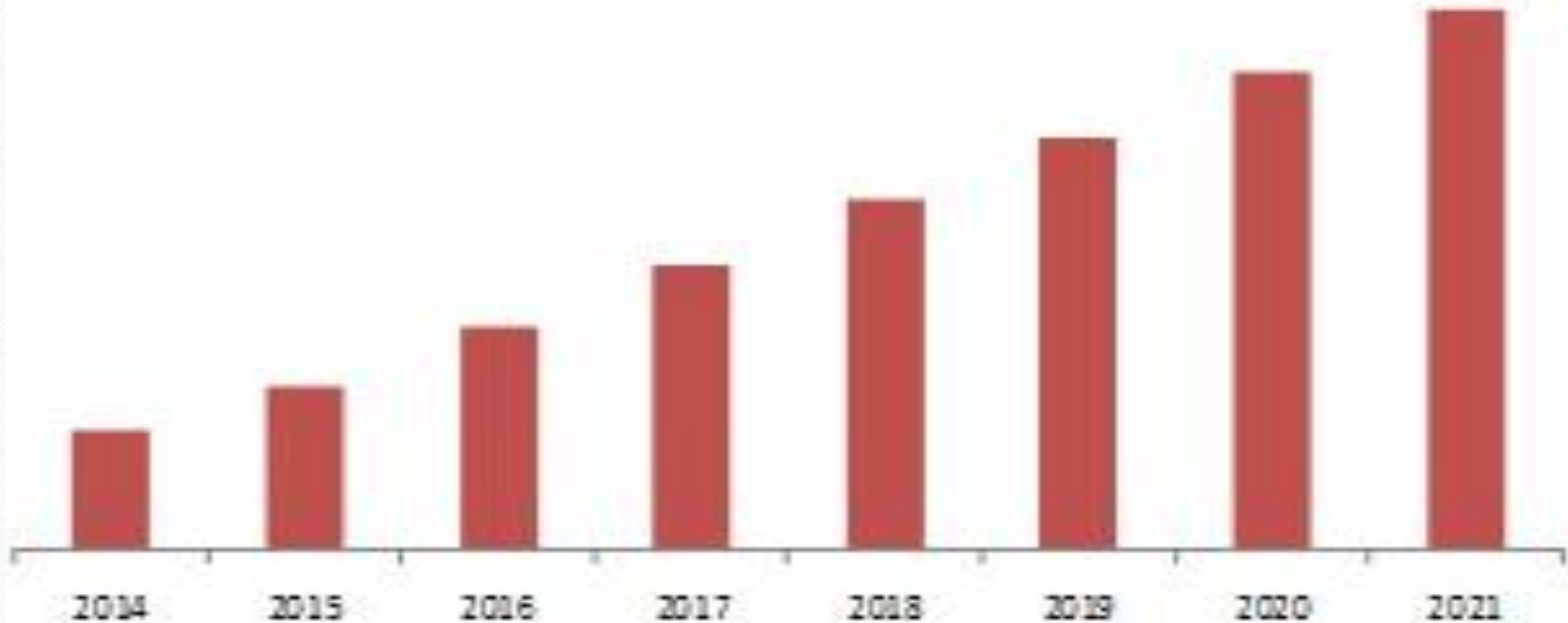


# Global Electroplating Market Value

2016 – 2026 at a CAGR of **3.7%**



# Electroplating Market





**The demand for copper and nickel as raw metals for electroplating is projected to surge at a faster pace, reaching a combined global market value share of more than 60% through 2026. Machinery Parts & Components segment, expanding at a CAGR of 3.8% over the forecast period, is expected to represent 10.2% share of the total incremental opportunity created between 2016 and 2026.**

**The Global metal finishing market is growing at a CAGR of 6.50% during the period 2014-2020. Among all the segments in the market the inorganic metal finishing market dominates the rest in terms of both market share and volume. Due to the increasing demand from end user industries such as Automotive, Electronics, Aerospace the global market for inorganic metal finishing technologies was worth \$64.2 billion in 2014 and is expected to reach \$95.8 billion with a CAGR of 6.91% by the end of 2020.**



**Niir Project Consultancy Services (NPCS) can  
provide Detailed Project Report on**

Electroplating, Metal Polishing, Anodizing,  
Phosphating Metal Finishing and Powder Coating

## ➤ **Hot Dip Galvanizing Plant**

**Galvanized coatings are applied to iron and steel primarily to provide protection against corrosion of the basis metal. Hot Dip Galvanizing is a process in which an adherent, protective coating of zinc and zinc compounds is developed on the surfaces of iron and steel products by immersing them in a bath of molten zinc. The protective coatings usually consist of several layers....[Read more](#)**

## ➤ **Corrugated Galvanized Sheet**

**Galvanized Corrugated Sheets are manufactured using best grade steel and is widely applied in construction industry.**

**Galvanized Corrugated Sheets have excellent corrosion resistance, these Sheets have become the most preferred material for various construction purposes, particularly roofing and walling....[Read more](#)**



## ➤ **Transmission Towers & Tele Communication Towers with Galvanizing Plant**

**A transmission tower (colloquially termed an electricity pylon in the United Kingdom and parts of Europe, an ironman in Australia, and a hydro tower in English Canada) is a tall structure, usually a steel lattice tower, used to support an overhead power line. They are used in high voltage AC and DC systems, and come in a wide variety of shapes and sizes....[Read more](#)**

**For more details visit at:**

**Electroplating, Metal Polishing, Anodizing,  
Phosphating Metal Finishing and Powder Coating**

**Electroplating, Anodizing & Metal Treatment,  
Powder Coating and Metal Finishing Technology**

# Major Queries/Questions Answered in our Report?

- 1. How has the industry performed so far and how will it perform in the coming years?**
- 2. What is the Project Feasibility of the Plant?**
- 3. What are the requirements of Working Capital for setting up the plant?**
- 4. What is the structure of the industry and who are the key/major players?**



- 5. What is the total project cost for setting up the plant?**
- 6. What are the operating costs for setting up the plant?**
- 7. What are the machinery and equipment requirements for setting up the plant?**
- 8. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up the plant?**
- 9. What are the requirements of raw material for setting up the plant?**

**10. Who are the Suppliers and Manufacturers of Raw materials for setting up the plant?**

**11. What is the Manufacturing Process of the plant?**

**12. What is the total size of land required for setting up the plant?**

**13. What will be the income and expenditures for the plant?**

**14. What are the Projected Balance Sheets of the plant?**

**15. What are the requirement of utilities and overheads for setting up the plant?**

**16. What is the Built up Area Requirement and cost for setting up the plant?**

**17. What are the Personnel (Manpower) Requirements for setting up the plant?**

**18. What are Statistics of Import & Export for the Industry?**

**19. What is the time required to break-even?**



- 20. What is the Break-Even Analysis of the plant?**
- 21. What are the Project financials of the plant?**
- 22. What are the Profitability Ratios of the plant?**
- 23. What is the Sensitivity Analysis-Price/Volume of the plant?**
- 24. What are the Projected Pay-Back Period and IRR of the plant?**
- 25. What is the Process Flow Sheet Diagram of the plant?**
- 26. What are the Market Opportunities for setting up the plant?**
- 27. What is the Market Study and Assessment for setting up the plant?**
- 28. What is the Plant Layout for setting up the plant?**

# Reasons for buying our report:

- **The 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**
- **The report provides vital information on the product like it's characteristics and segmentation**
- **The report helps you market and place the product correctly by identifying the target customer group of the product**

- **The 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**

*Visit us at:*

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NIIR PROJECT CONSULTANCY SERVICES  
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Google Maps*

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## Contact us

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<https://goo.gl/VstWkd>

# ***NIIR PROJECT CONSULTANCY SERVICES***

**An ISO 9001:2015 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*

## What do we offer?

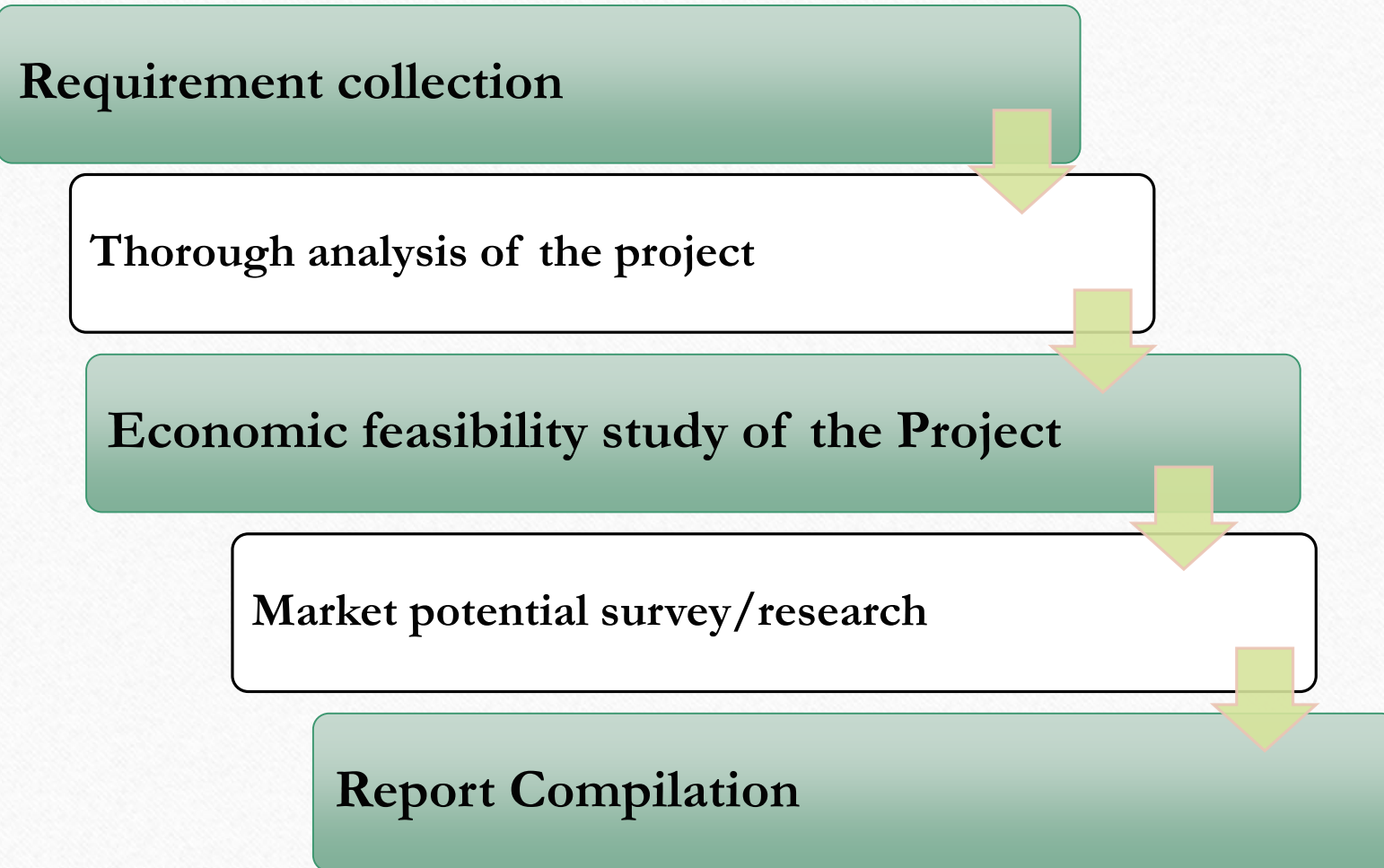
- *Project Identification*
- *Detailed Project Reports/Pre-feasibility Reports*
- *Business Plan*
- *Market Research Reports*
- *Technology Books and Directory*
- *Industry Trend*
- *Databases on CD-ROM*
- *Laboratory Testing Services*
- *Turnkey Project Consultancy/Solutions*
- *Entrepreneur India (An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

## How are we different ?

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



# Our Approach



# Who do we serve?

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

# Sectors We Cover

- *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*



- *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*

- *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*

- *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*



- *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.*

- *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.*

- *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*



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

## Contact us

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