

STARTING A PRINTED CIRCUIT BOARD (PCBS)

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Detailed Project Report



Introduction



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A Printed Circuit Board or PCB is a piece of rigid non-conductive material which is used to provide electrical connections and interconnections in electronic circuits. It consists of patterns of metallic traces printed onto a sheet, which are then laminated onto a substrate.

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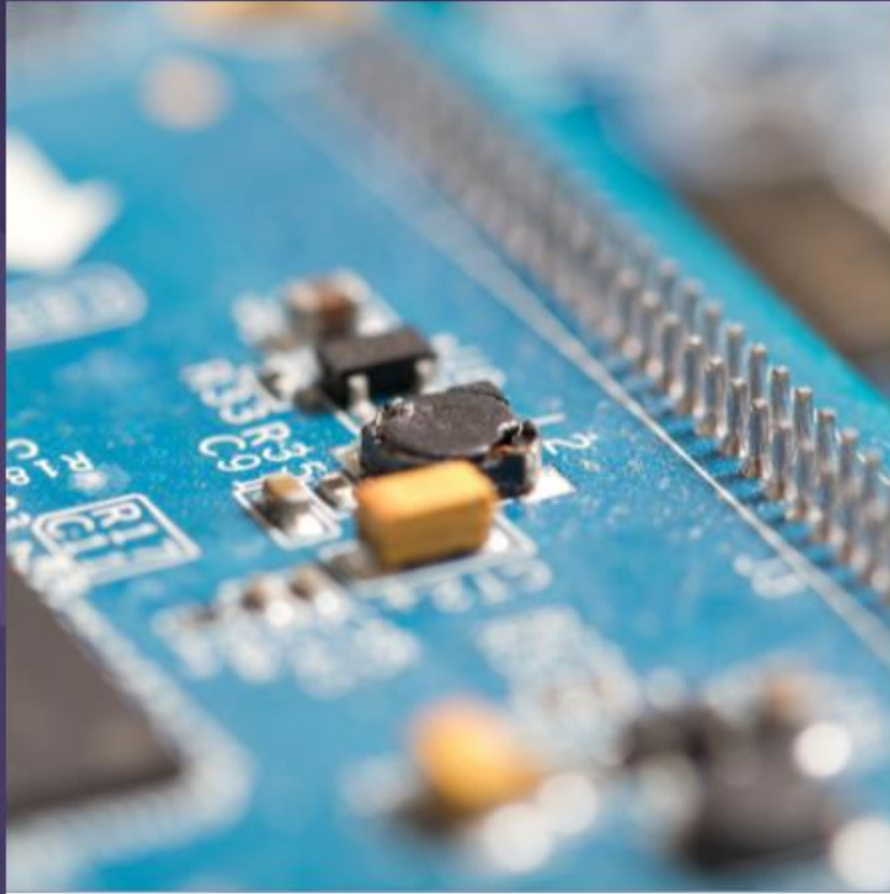
The base material is usually fiberglass, epoxy resin stiffened phenolic resin or thermoset plastic, but FR-4 glass epoxy has become common as well. A printed circuit board (PCB) is an etched flexible flat board that contains electrical components; many types include connectors for external devices. This allows components to be easily installed and replaced without soldering.



Boards can be custom designed for special applications such as large computer systems with many components, industrial control systems with special inputs/outputs requirements or military/aerospace systems with high reliability requirements and stringent failure modes.

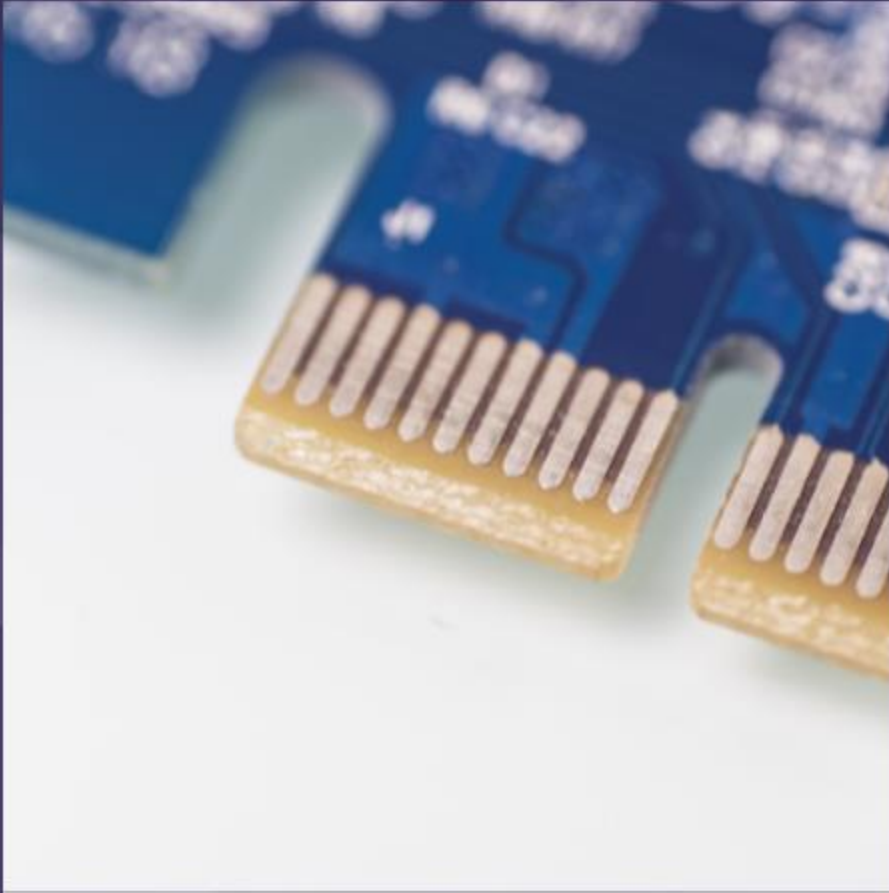
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Uses of Printed Circuit Board (PCBs)



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Printed circuit boards are used in most electronic devices. Since electronics continue to get smaller and faster, printed circuit boards will be employed in more products and applications. The number of printed circuit board manufacturers continues to grow as well since small volume,

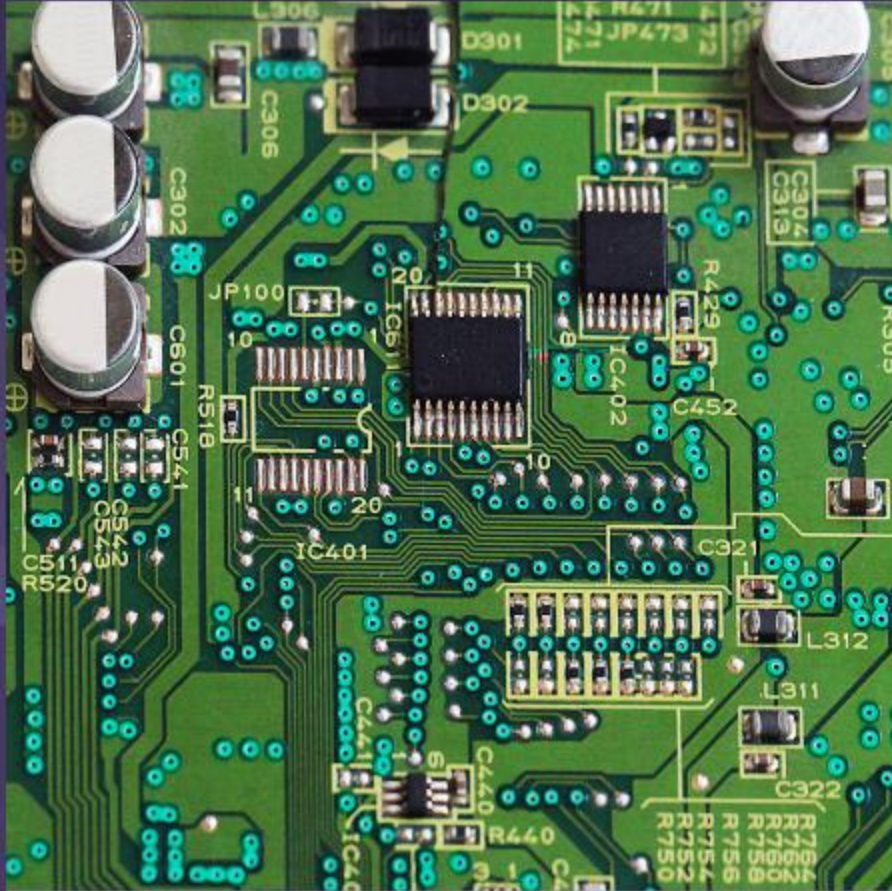


low cost PCBs are required for prototypes and low-volume production runs of new designs. Small volume production is also common for replacement PCBs that a manufacturer can easily stock rather than custom fabricate for each customer.



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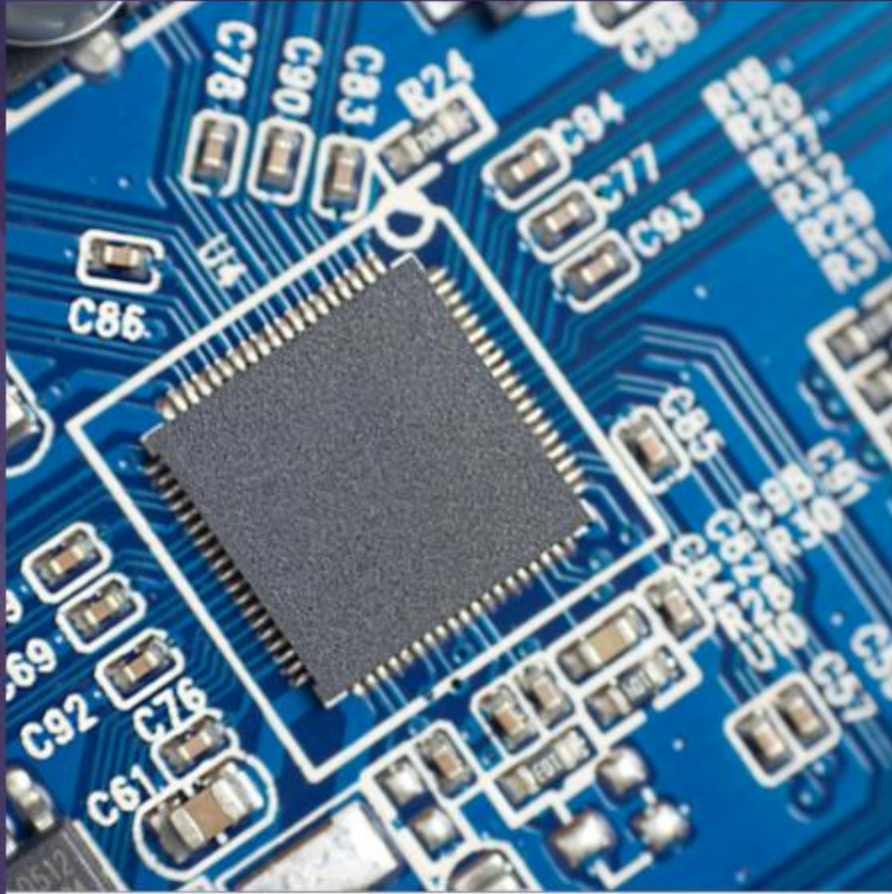
➤ **Business Plan:** Start Printed Circuit Board (PCBs) Manufacturing Business



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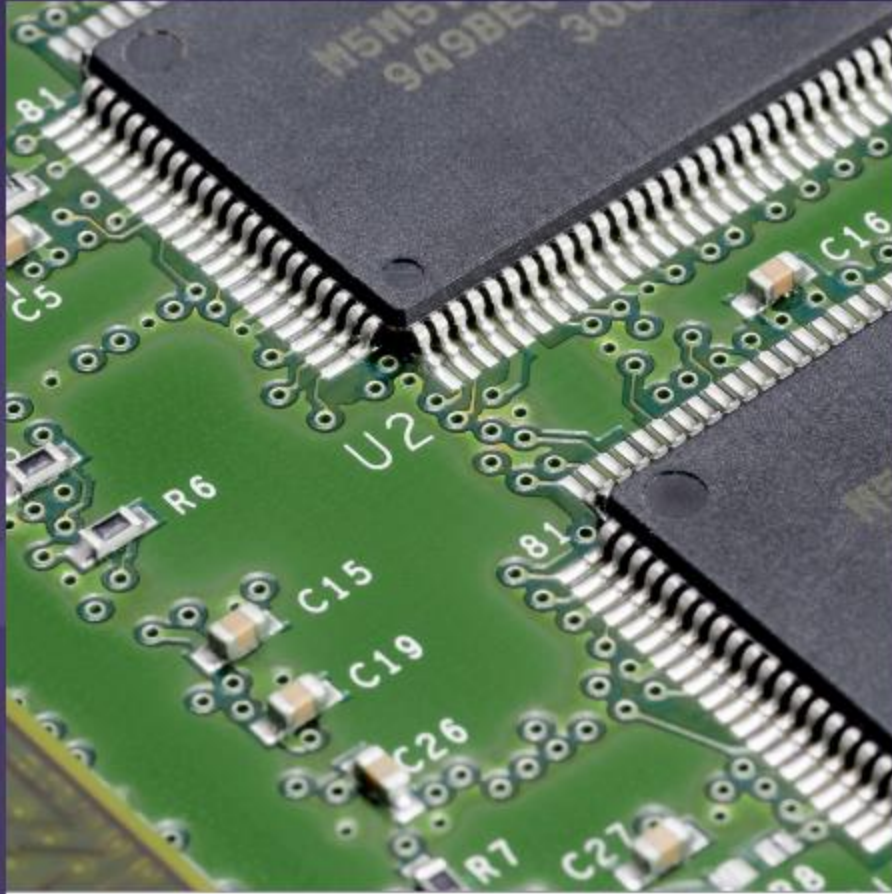
As technology advances and consumer expectations increase, printed circuit boards are sure to remain an important part of manufacturing processes. Industrial controls have grown rapidly over recent years.

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In particular, panels or control cabinets have become commonplace in industry settings. Many such panels use customized programmable logic controllers (PLC), which require preprinted wiring board assemblies known as Printed Wiring Boards, or PWBs.



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Manufacturing Process



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PCB manufacturing process can be carried out by using 2 processes one is subtractive manufacturing and another is additive manufacturing. In subtractive process, material used in circuit board is cut to get desired shape and size of PCB.

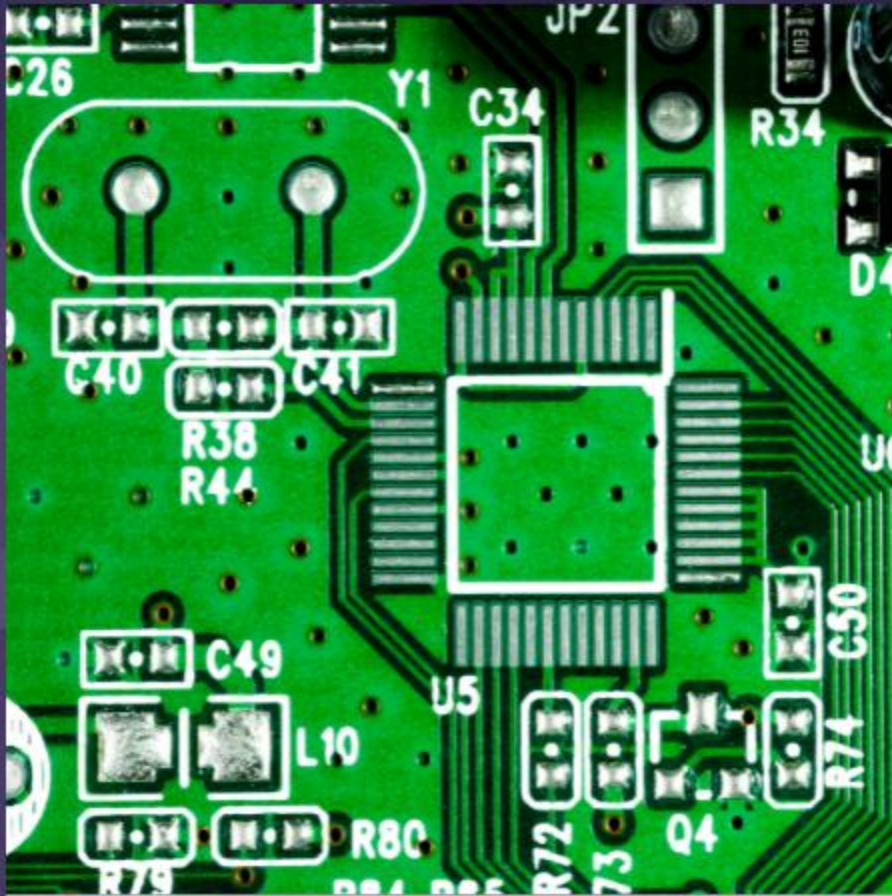
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In additive process a 3D circuit pattern is created by adding up number of layers of copper foil. A PCB can be made either with through-hole technology or surface mount technology. For creating printed circuits board's different tools are used such as drill press, drill bits and router saws.

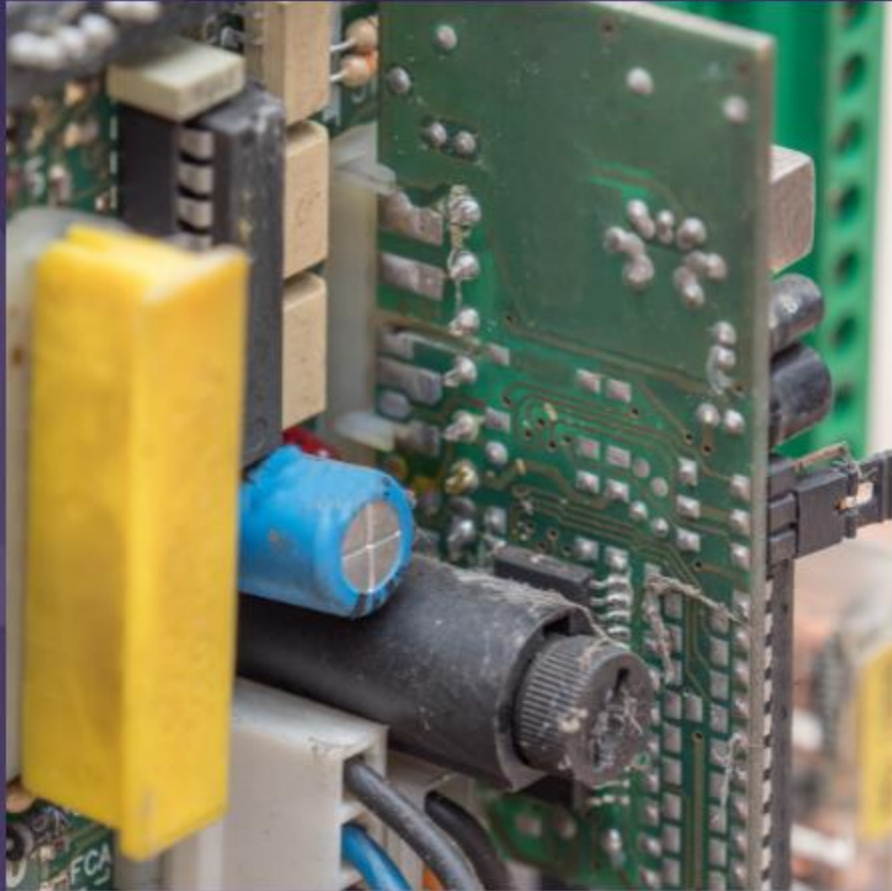


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All these machines are necessary for fabrication of electric circuits on fiberglass substrates. The most important tool which helps to make connections between different components is soldering iron or solder station. Solder stations play very crucial role in assembling elements on PCB's. There are certain kinds of solder pencils those should not use because they do damage to PCB.



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It is better option to hire companies which provide you services regarding PCB designing & manufacturing instead of doing it yourself because it requires great expertise and experience in designing electronic circuitry.

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Machinery Photographs

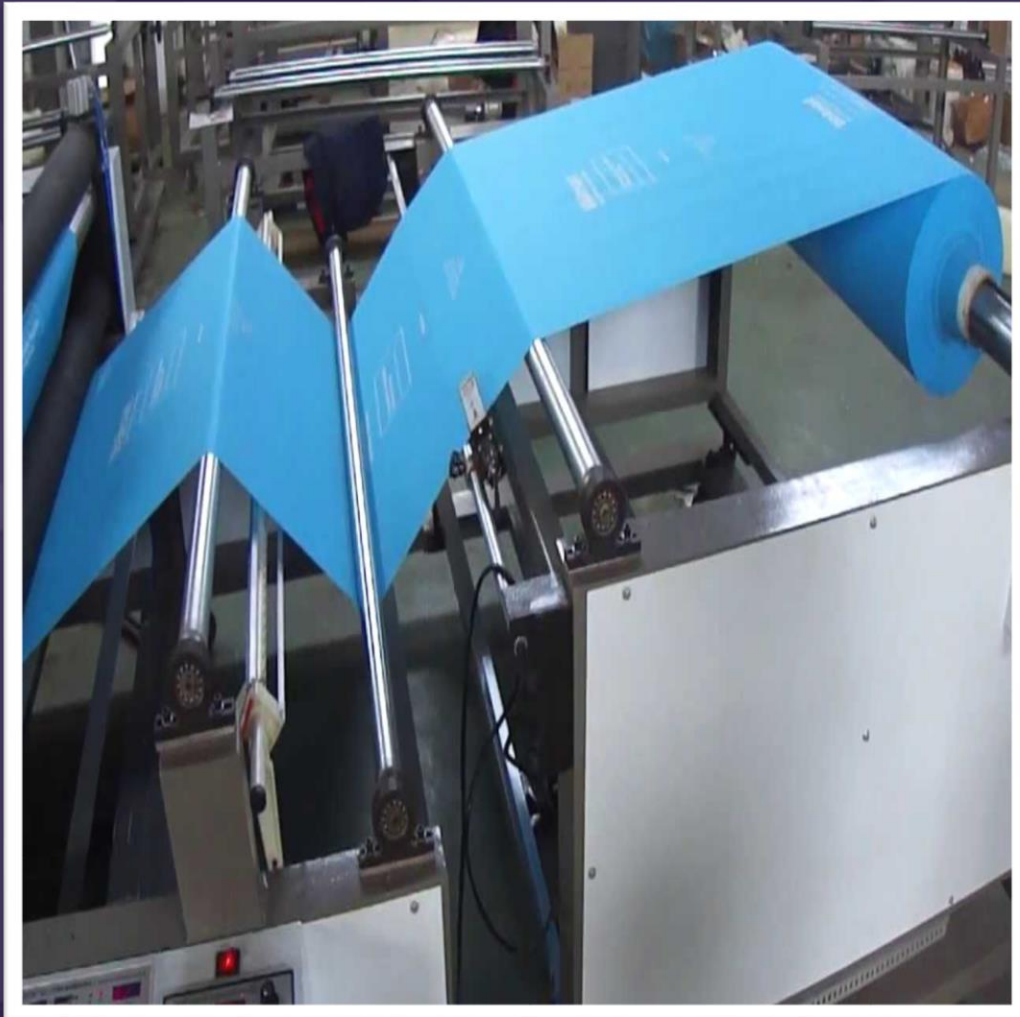
Brushing Machine



Dust Collector



Printing Machine



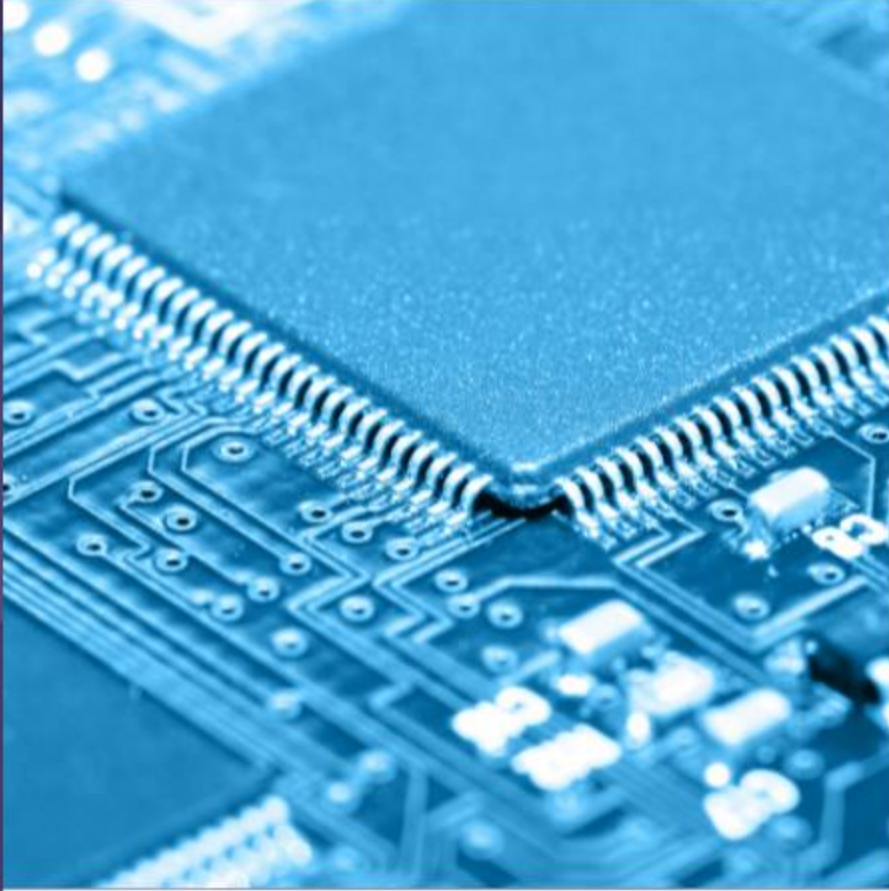
Air Compressor



Market Demand of Printed Circuit Board (PCBs)

Between 2020 and 2025, the potential growth difference for the PCB industry is USD 12.86 billion. During the forecast period, the market momentum is expected to accelerate at a CAGR of 3.60 percent. One of the major factors driving the PCB industry is the growing use of smartphones. Due to the availability of low-cost smartphones and rising worldwide Internet penetration, smartphone adoption is likely to accelerate globally.

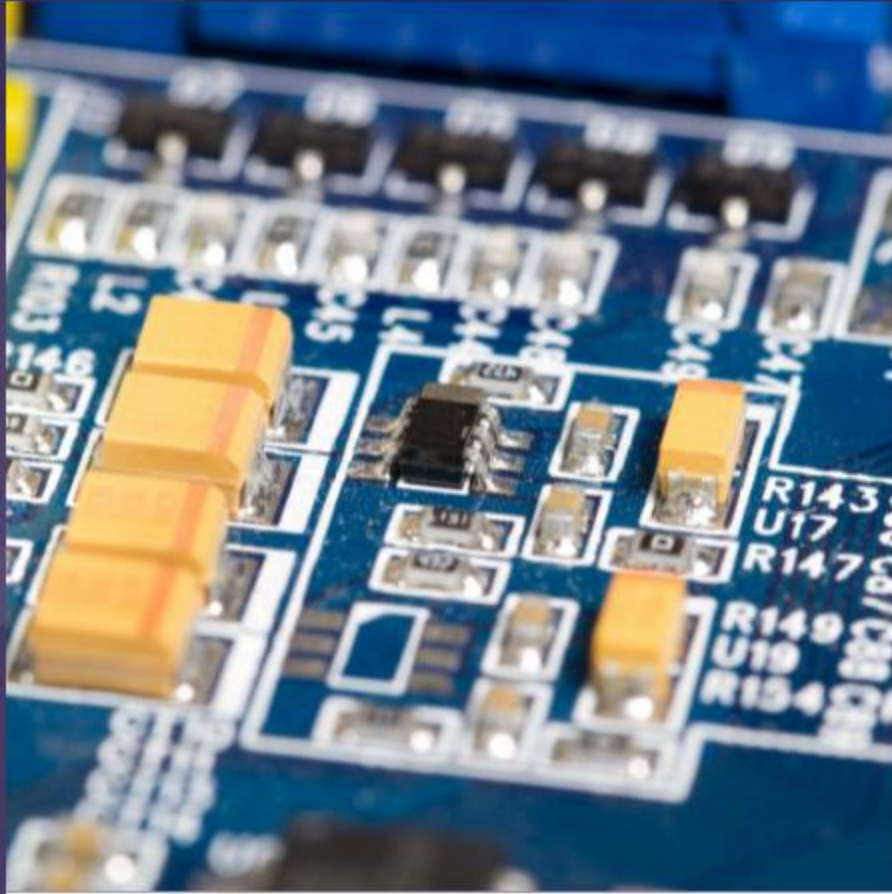
Due to the growing disposable income of the relatively large population in these economies, rising economies such as India is emerging as significant markets for smartphones. As a result, rising smartphone shipments will increase demand for PCB integration. The need for Printed Circuit Boards is being driven by the rapidly rising commercial, residential, and industrial construction industries in developing economies around the world.



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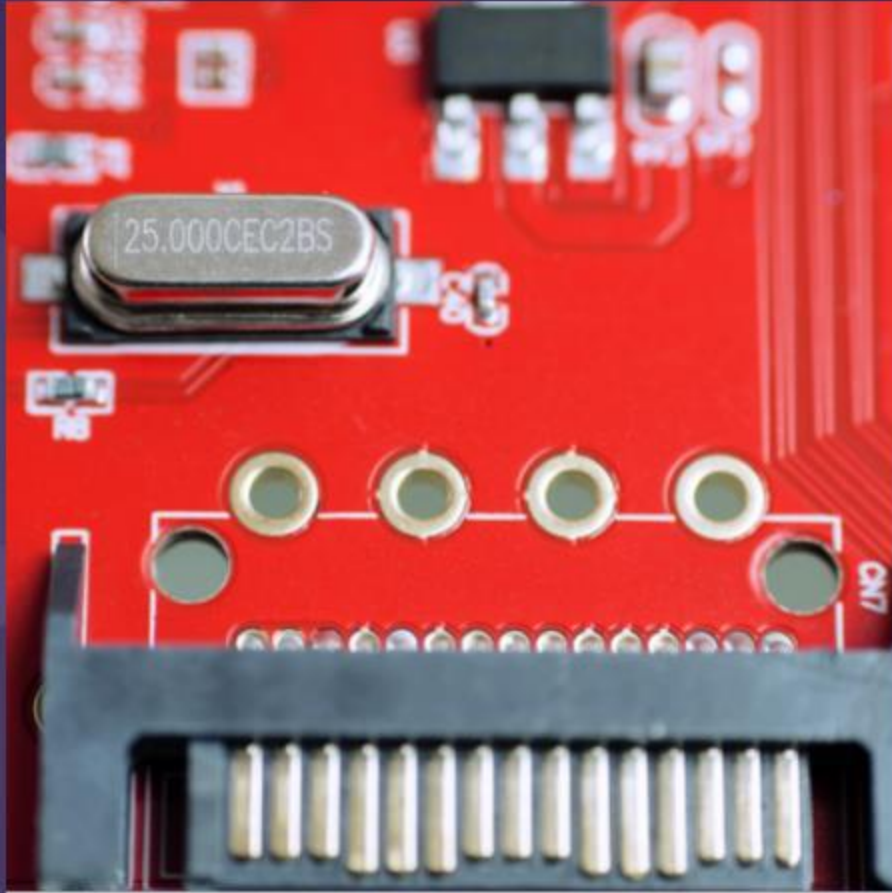
Demand for excellent electrical and electronic items, such as smart phones, laptops, and desktop computers, is increasing as disposable income rises. Over the next six years, the industry is predicted to rise due to increased use of IoT devices and social media growth.

Benefits of Starting Printed Circuit Board Manufacturing Business



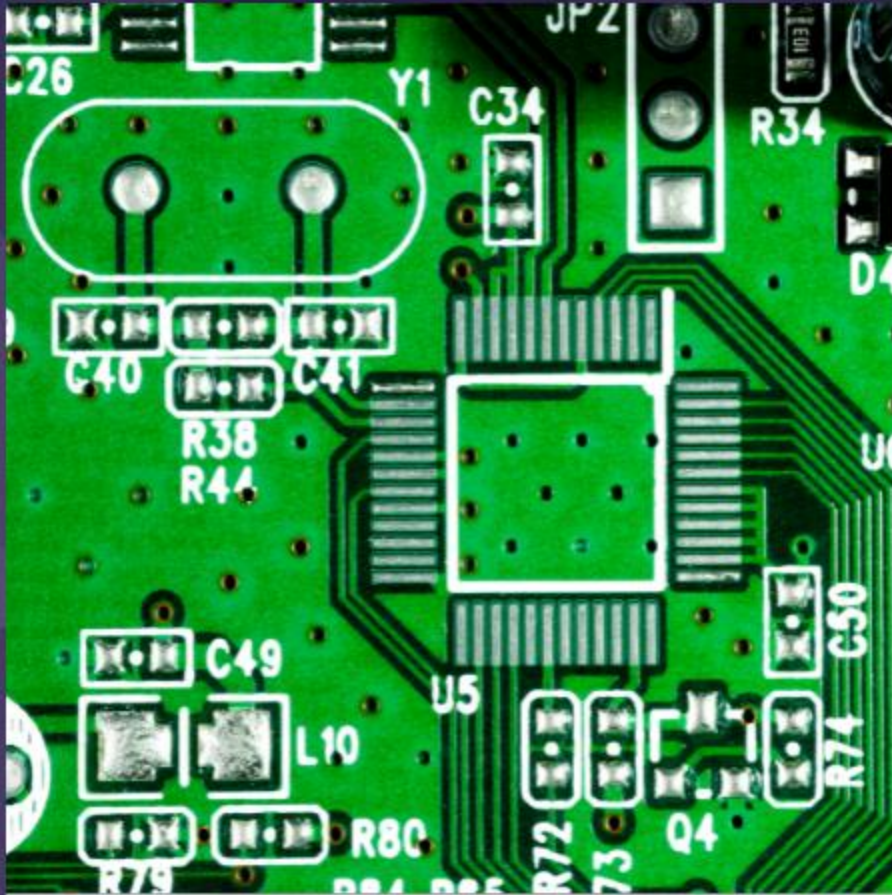
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Due to its widespread use in a variety of industries, the Printed Circuit Board (PCB) industry is in high demand. In recent years, the number of enterprises using printed circuit boards has surged by more than 80%. There are a number of reasons why more companies are turning to PCBs for their projects.



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They assist safeguard electronic circuits from harm such as water, corrosion, and physical trauma, and they're used in both industrial and medical applications. High-Growth Industry Electronics consumption increased by 20% yearly over the last ten years, and it will continue to expand at a rate of 5% every decade until 2028.



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This explosive rise was fueled primarily by emerging markets, where nearly everyone owns a smartphone or computer, resulting in constant demand for electronics components such as semiconductors, transistors, and wires.

Key Players

- *Akasaka Electronics Ltd. (2002)*
- *Akasaka Electronics Ltd.*
- *Amara Raja Electronics Ltd.*
- *Ample Circuit Pvt. Ltd.*
- *At & S India Pvt. Ltd.*
- *B I T Mapper Integration Technologies Pvt. Ltd.*



Project at a Glance

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	60.00	60.00	Capital	0.00	148.41	148.41
Buildings	0.00	120.00	120.00	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	259.05	259.05	Other Type Share Capital	0.00	0.00	0.00
Motor Vehicles	0.00	12.00	12.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	63.25	63.25	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	15.00	15.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits Preliminary& Pre-operative Exp	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	445.23	445.23
Provision for Contingencies	0.00	24.00	24.00	Debentures / Bonds	0.00	0.00	0.00
Margin Money - Working Capital	0.00	35.33	35.33	Unsecured Loans/Deposits	0.00	0.00	0.00
TOTAL	0.00	593.63	593.63	TOTAL	0.00	593.63	593.63

Year	Annualised		Book Value	Debt	Dividend	Retained Earnings		Payout	Probable Market Price	P/E Ratio	Yield Price/Book Value
	EPS	CEPS				Per Share					
						%		%		No.of Times	
1-2	5.21	9.55	15.21	24.00	0.00	100.00	5.21	0.00	5.21	1.00	0.00
2-3	9.40	13.16	24.61	18.00	0.00	100.00	9.40	0.00	9.40	1.00	0.00
3-4	10.67	13.93	35.28	12.00	0.00	100.00	10.67	0.00	10.67	1.00	0.00
4-5	13.29	16.12	48.57	6.00	0.00	100.00	13.29	0.00	13.29	1.00	0.00
5-6	15.79	18.26	64.36	0.00	0.00	100.00	15.79	0.00	15.79	1.00	0.00

Year	D. S. C. R.			Debt / - Deposits Debt	Equity as- Equity	Total Net Worth	Return on Net Worth	Profitability Ratio					Assets Turnove r Ratio	Current Ratio
	Individu al	Cumulati ve	Overall					GPM	PBT	PAT	Net Contrib ution	P/V Ratio		
	(Number of times)			(Number of times)		%	%	%	%	%	%			
Initial				3.00	3.00									
1-2	1.40	1.40		1.58	1.58	2.32		13.26%	7.35%	5.37%	527.25	36.61%	1.96	1.00
2-3	1.88	1.63		0.73	0.73	1.24		17.41%	12.55%	8.31%	647.08	38.52%	2.08	1.38
3-4	2.05	1.76	2.08	0.34	0.34	0.76		16.84%	12.76%	8.25%	701.08	36.51%	2.11	1.73
4-5	2.45	1.91		0.12	0.12	0.46		17.81%	14.33%	9.13%	788.68	36.51%	2.07	2.12
5-6	2.92	2.08		0.00	0.00	0.28		18.44%	15.43%	9.76%	876.28	36.51%	1.97	3.37

BEP**BEP - Maximum Utilisation Year****5****Cash BEP (% of Installed Capacity)****53.53%****Total BEP (% of Installed Capacity)****57.71%****IRR, PAYBACK and FACR****Internal Rate of Return .. (In %age)****26.67%****Payback Period of the Project is (In Years)****2 Years 3 Months****Fixed Assets Coverage Ratio (No. of times)****7.473**

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

- 5. What is the structure of the Printed Circuit Board (PCBs) Manufacturing Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Printed Circuit Board (PCBs) Manufacturing Business?**
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- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Printed Circuit Board (PCBs) Manufacturing plant ?**
- 10. What are the requirements of raw material for setting up Printed Circuit Board (PCBs) Manufacturing plant ?**
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up Printed Circuit Board (PCBs) Manufacturing Business?**
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#PrintedCircuitBoard

#PrintedCircuitBoardManufacturing

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- 2.IS: 5921 - Metal Clad base Material for Printed Circuits for Use in Electronics and Telecommunication Equipment***
- 3.IS: 1885 - 1978 (Part VI) - Electro Technical Vocabulary, Printed Circuits (First Revision)***
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- **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.

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- **Databases on CD-ROM**
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- **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

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

Our Approach

Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation

- 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.

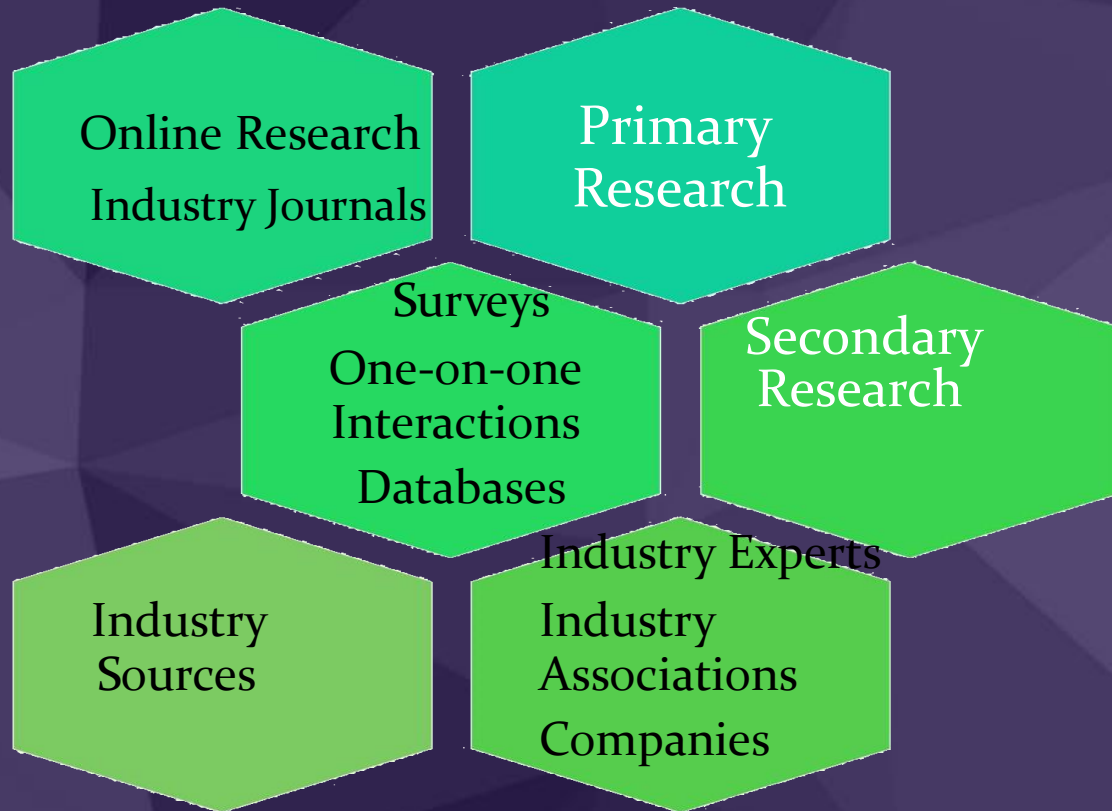
- Potato And Potato Based Projects
- Printing And Packaging
- Real Estate, Leisure And Hospitality
- Rubber And Rubber Products
- Soaps And Detergents
- Stationary Products
- Spices And Snacks Food
- Steel & Steel Products
- Textile Auxiliary And Chemicals
- Township & Residential Complex
- Textiles And Readymade Garments
- Waste Management & Recycling
- Wood & Wood Products
- Water Industry(Packaged Drinking Water & Mineral Water)
- Wire & Cable

- 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
- 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

- 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 research team comprises of experts from various financial fields:

✧ MBA's

✧ Industry Researchers

✧ Financial Planners

✧ Research veterans with decades of experience



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Take a look at **NIIR PROJECT CONSULTANCY SERVICES** on #StreetView

[google-street-view](https://www.google.com/maps/@28.6448127,77.1026583,15z)



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A close-up photograph of a hand holding a blue fountain pen, writing the words 'Thank you!' in a cursive script. The pen is positioned at the end of the word 'you!', with the nib touching the paper. The background is a soft, out-of-focus light gray.

Thank you!

For more information, visit us at:

www.entrepreneurindia.co

www.niir.org