

Start Production Unit of



Lithium Ion Battery

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Beneficial Business of Li-ion Battery



Assembling for New Entrepreneur.



Introduction

A lithium-ion battery, sometimes known as a Li-ion battery, is a rechargeable battery type. Lithium-ion batteries are widely utilised in portable gadgets and electric cars, and their employment in military and aerospace applications is increasing. During discharge, lithium ions travel from the negative electrode to the positive electrode via an electrolyte, and vice versa while charging.

The positive electrode of a lithium-ion battery is made of an intercalated lithium compound, while the negative electrode is usually made of graphite. With the exception of LFP cells, the batteries have a high energy density, no memory effect, and low self-discharge. They can, however, be a safety problem because they contain flammable electrolytes, which can cause explosions and flames if damaged or incorrectly charged. This generic battery definition applies to lithium-ion batteries. Lead-acid and nickel-cadmium are two further examples (Ni-Cad).

Uses of Lithium-Ion Batteries

1. Emergency Power Backup or UPS

(Uninterruptible Power Supply): **A lithium**

battery used as an emergency power backup or

UPS protects you against power outages or

instability. It differs from a generator or other

emergency power source in that it offers near-

instant electricity to run (or securely shut

down) the equipment to which it is connected.

2. Dependable Electric and Recreational Vehicle

Power: Lithium batteries provide dependable, steady, and long-lasting power, making them the greatest choice for staying comfortable while exploring distant areas securely. Lithium batteries provide electricity for extended voyages and lose little power between uses, with a life duration of over ten years.



3. Reliable and Lightweight Marine Performance:

The combination of water and electricity has the potential to cause a slew of issues. Lithium batteries allow you to concentrate on the pleasure of being on the water rather than worrying about whether or not your marine motor will start at the end of the day. Upgrade your boat's battery to a long-lasting rechargeable lithium battery for years of trouble-free motor starts at a quarter of the weight of a standard lead-acid battery.

Market Outlook

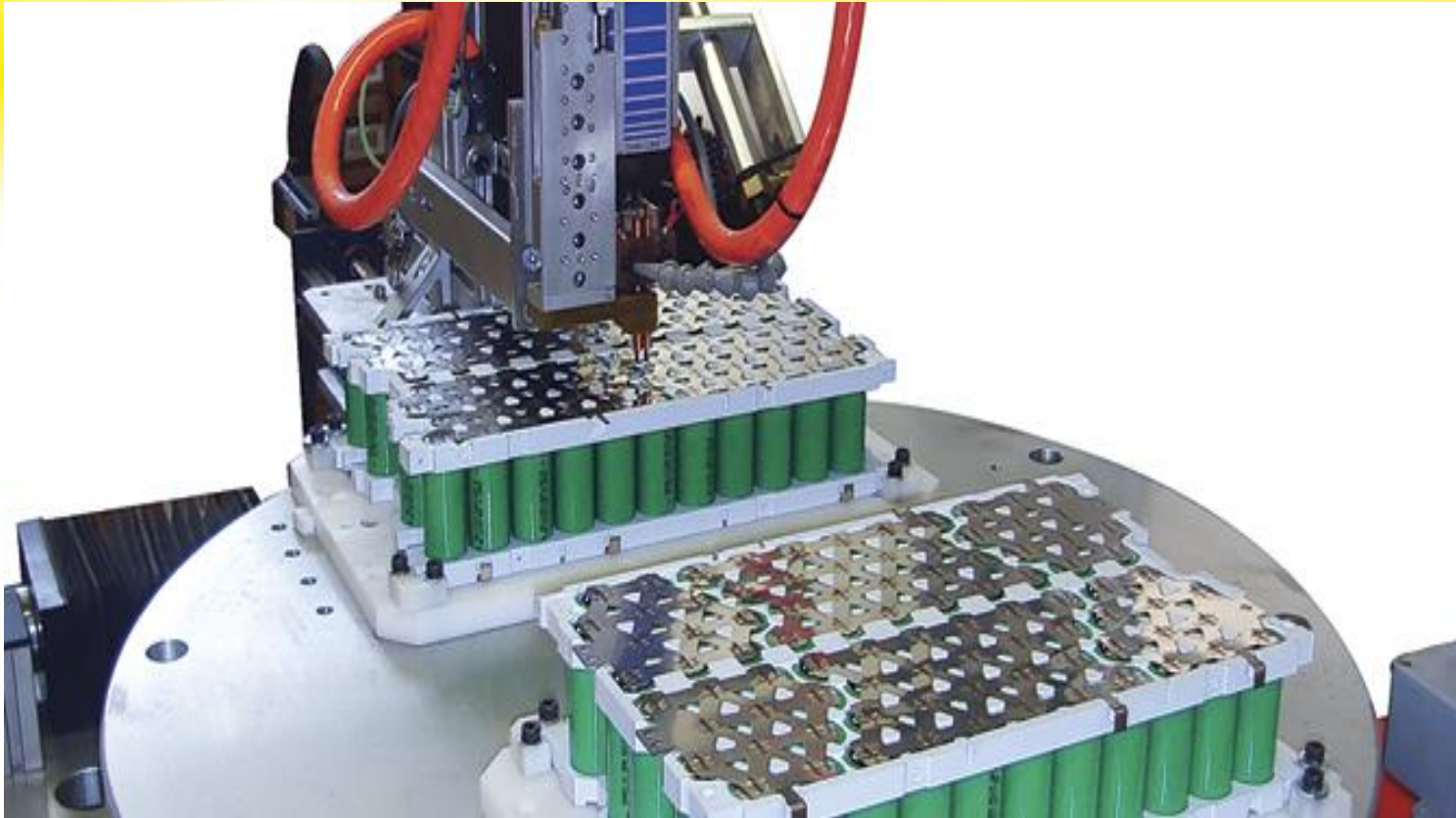
The global lithium-ion battery market was worth \$36.7 billion in 2019 and is expected to reach \$129.3 billion by 2027, with a CAGR of 18.0% between 2020 and 2027. A lithium-ion (Li-ion) battery is a rechargeable battery that uses lithium ions as one of its electrochemical components. The demand for smartphones and other electronics devices, as well as the rise in electric cars, are some of the primary reasons driving the global lithium-ion battery market.

The implementation of strict government measures to reduce rising pollution levels is projected to boost market growth even further. The electrical and electronics segment contributed the most to the market's growth. Because of their longer service life and high energy density, lithium-ion batteries are primarily utilised in smartphones, tablets/PCs, UPS, and a few other sorts of electronic equipment.

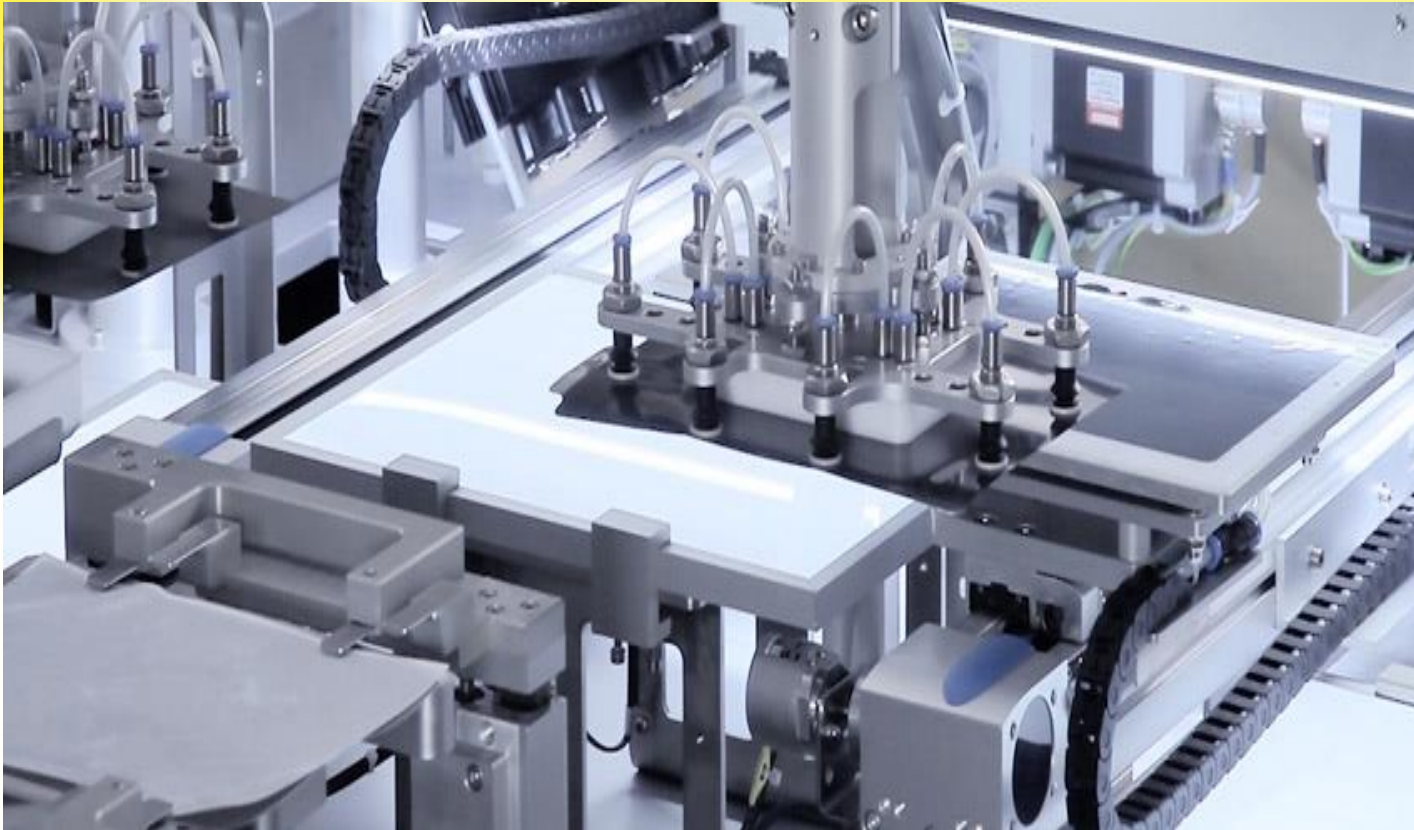
Key Players

- 1. Amara Raja Batteries Ltd.**
- 2. Bharat Electronics Ltd.**
- 3. Carborundum Universal Ltd.**
- 4. Eon Electric Ltd.**
- 5. Exide Industries Ltd.**
- 6. H B L Power Systems Ltd.**
- 7. Luminous Power Technologies Pvt. Ltd.**
- 8. Okaya Power Pvt. Ltd.**

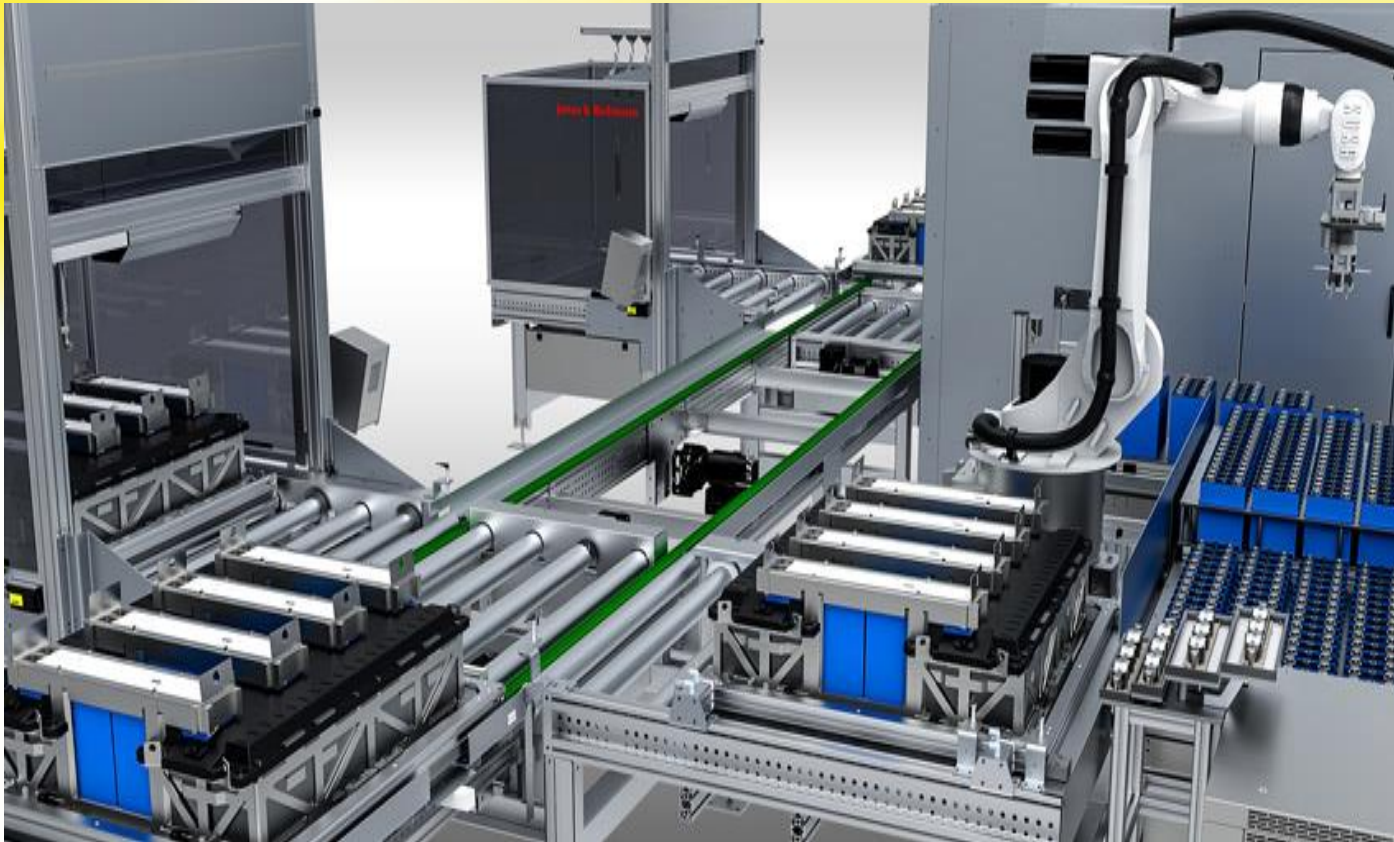
Machinery Photographs



Automatic Laser Welding Station



Automatic Module Assembly Station



Pre Assembly Station

The main title "Project at a Glance" is centered on the page. The word "Project" is on the top line and "at a Glance" is on the bottom line. Both lines of text are in a large, bold, yellow font with a thick black outline. The text is superimposed over a 3D illustration of a blue rectangular box. The top surface of the box is open, revealing a white sheet of paper with some faint, illegible text. A black power cord with a standard three-pronged plug is connected to the left side of the box. The entire scene is set against a white background with a subtle, light-colored grid pattern.

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	20.00	20.00	Capital	0.00	73.19	73.19
Buildings	0.00	74.60	74.60	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	72.28	72.28	Other Type Share Capital	0.00	0.00	0.00
Motor Vehicles	0.00	10.00	10.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipment's	0.00	19.50	19.50	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	20.00	20.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	219.57	219.57
Preliminary & Pre-operative Exp	0.00	5.00	5.00	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	6.00	6.00	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	65.38	65.38				
TOTAL	0.00	292.76	292.76	TOTAL	0.00	292.76	292.76

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				
										No.of Times	
						%		%			%
1-2	5.46	8.91	15.46	24.00	0.00	100.00	5.46	0.00	5.46	1.00	0.00
2-3	9.08	12.11	24.54	18.00	0.00	100.00	9.08	0.00	9.08	1.00	0.00
3-4	12.59	15.26	37.13	12.00	0.00	100.00	12.59	0.00	12.59	1.00	0.00
4-5	15.84	18.21	52.97	6.00	0.00	100.00	15.84	0.00	15.84	1.00	0.00
5-6	18.80	20.89	71.77	0.00	0.00	100.00	18.80	0.00	18.80	1.00	0.00

Year	D. S. C. R.			Debt / - Deposit s Debt	Equity as- Equity	Total Net Worth	Return on Net Worth	Profitability Ratio					Assets Turnover Ratio	Current Ratio
	Individual	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	1.33	1.33		1.55	1.55	4.91		4.74%	2.12%	1.45%	457.67	16.65 %	4.22	1.10
2-3	1.75	1.53		0.73	0.73	3.17		5.55%	3.19%	2.07%	523.32	16.32 %	4.37	1.18
3-4	2.22	1.75	2.20	0.32	0.32	2.16		6.07%	3.93%	2.51%	597.83	16.31 %	4.33	1.29
4-5	2.75	1.97		0.11	0.11	1.56		6.40%	4.43%	2.81%	672.34	16.31 %	4.20	1.40
5-6	3.34	2.20		0.00	0.00	1.19		6.59%	4.75%	3.00%	746.85	16.30 %	4.02	1.64

BEP**BEP - Maximum Utilisation Year****5****Cash BEP (% of Installed Capacity)****68.60%****Total BEP (% of Installed Capacity)****70.65%****IRR, PAYBACK and FACR****Internal Rate of Return .. (In %age)****29.95%****Payback Period of the Project is (In Years)****2 Years 3 Months****Fixed Assets Coverage Ratio (No. of times)****36.823**

Major Queries/Questions Answered in the Report?

- 1. What is Lithium Ion Battery (Battery Assembly) Manufacturing industry ?**
- 2. How has the Lithium Ion Battery (Battery Assembly) Manufacturing industry performed so far and how will it perform in the coming years ?**
- 3. What is the Project Feasibility of Lithium Ion Battery (Battery Assembly) 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 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 Lithium Ion Battery.” provides an insight into Lithium Ion Battery market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Lithium Ion Battery project. The report assesses the market sizing and growth of the Indian Lithium Ion Battery 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 Lithium Ion Battery sector in India along with its business prospects. Through this report we have identified Lithium Ion Battery project as a lucrative investment avenue.

#DetailedProjectReport **#businessconsultant**
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#ManufacturingBusiness **#LithiumIonBattery**
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#LithiumIonBatteryIndustry
#LithiumIonBatteryManufacturing **#ElectricVehicles**
#ElectricVehiclesIndustry **#ElectricVehiclesProduction**
#ElectricalIndustry **#ElectricIndustry** **#RenewablePower**

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The background of the slide is a photograph of three business professionals in a modern office setting. A man in a grey suit is shaking hands with another man in a grey suit. A woman in a grey blazer stands between them, smiling. Large, bold, red text with a white outline and a reflection effect is overlaid on the image. The text reads "OUR" on the top line and "CLIENTS" on the bottom line.

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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](#)



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NIIR PROJECT CONSULTANCY SERVICES

AN ISO 9001 : 2015 CERTIFIED COMPANY

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Who are we?

A trusted and leading name in the industry, we have been putting forth exceptionally integrated and comprehensive technical consultancy services. We believe that project consultancy serves as a critical element for the success of your projects. Moreover, we keep in mind that no client is the same and nor are the requirements. Therefore, we ensure uniqueness in every service you avail from us.

- **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.

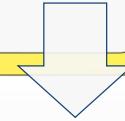
We bring deep, functional expertise, but are known for our holistic perspective: we capture value across boundaries and between the silos of any organization. We have proven a multiplier effect from optimizing the sum of the parts, not just the individual pieces. We actively encourage a culture of innovation,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

- **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)**

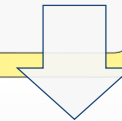
- We have two decades long experience in project consultancy and market research field
- We empower our customers with the prerequisite know-how to take sound business decisions
- We help catalyze business growth by providing distinctive and profound market analysis
- We serve a wide array of customers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

Our Approach

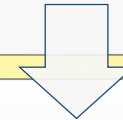
Requirement collection



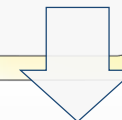
Thorough analysis of the project



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**

- ❖ **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**

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.**

- ❖ **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**

Sectors We Cover *Cont...*

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

A high-angle photograph of a business meeting. Five people are seated around a table, looking at documents and laptops. The scene is brightly lit, and the background is a light, neutral color.

Market Research Report

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

- 5. Key Financials and Analysis**
 - 5.1 Contact Information**
 - 5.2 Key Financials**
 - 5.3 Financial comparison**
- 6. Industry Size & Outlook**



CONTACT US



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Thank
you! 😊

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