



WATCH NOW

**HOW TO START MANUFACTURING  
BUSINESS OF**

**LITHIUM ION BATTERY  
(LIFEPO4)**

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**"BUSINESS IDEAS IN BATTERY INDUSTRY"**



# Introduction

*A lithium iron phosphate (LFP) battery can charge and discharge at rapid speeds. It's a rechargeable battery with a cathode made of LiFePO<sub>4</sub>, hence the name. Lithium iron phosphate (LFP) batteries, sometimes known as lithium Ferro phosphate batteries, are a type of lithium battery.*



➤ Visit this Page for More Information: [Start a Business in Lithium-Ion Battery Production](#)

*Lithium iron phosphate batteries are distinguished from other lithium-ion batteries by their ability to deliver a consistent voltage and a higher charge cycle, ranging from 2000 to 3000 cycles. Environmentally friendly and structurally sound, LFP batteries are a great choice. Their energy density is lower, and their discharge rate is slower. They are relatively cooler than conventional batteries and do not heat up easily. The battery's composition protects it from thermal runaway, so it's regarded safe for residential usage.*

➤ **Read Similar Articles: [Battery Projects](#)**



# Uses



- In Buses, electric automobiles, tour buses, hybrid vehicles, and other attractions are examples of large electric vehicles.
- In Electric cycles, golf carts, compact cars, forklifts, electric vehicle cleaning wheelchairs, and other light electric vehicles
- In Lawn movers, electric saws, and electric drills are examples of power tools.





- *In Toys that can be controlled remotely include cars, boats, planes, and other vehicles.*
- *In Solar panels and wind energy storage.*
- *In Warning lights, UPS, miner's lamp, emergency lights, and so on are all examples.*
- *In Medical tools and small medical equipment.*

# Manufacturing Process

*Raw ingredients for a  $\text{LiFePO}_4$  battery are lithium oxide ( $\text{Li}_2\text{O}$ ), iron oxide ( $\text{Fe}_2\text{O}_3$ ), and polypropylene (PP) resin. Cathode, graphite anode, and separator are formed by combining these elements. After that, they're put in a mould to assist mould them into their final shape before being rolled into sheets or cut into coins or other shapes, depending on what you want to make. Various chemicals can be added to  $\text{LiFePO}_4$  batteries in addition to lithium oxides to change parameters like as conductivity, energy density, cycle life, or safety for specific purposes.*

➤ **Watch other Informative Videos: [Battery Industry](#)**





*1. Molding*

*2. Milling / Slicing*

*3. Rolling*

*4. Coating*

*6. Folding*

*7. Final Assembly*

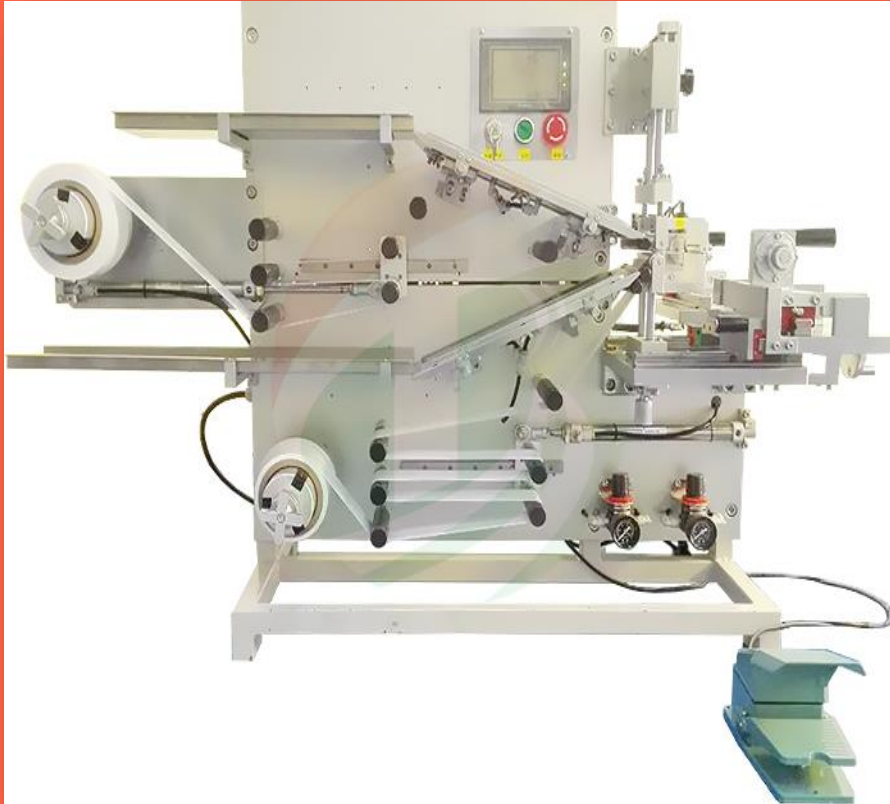
*8. Packaging*

*9. Testing*

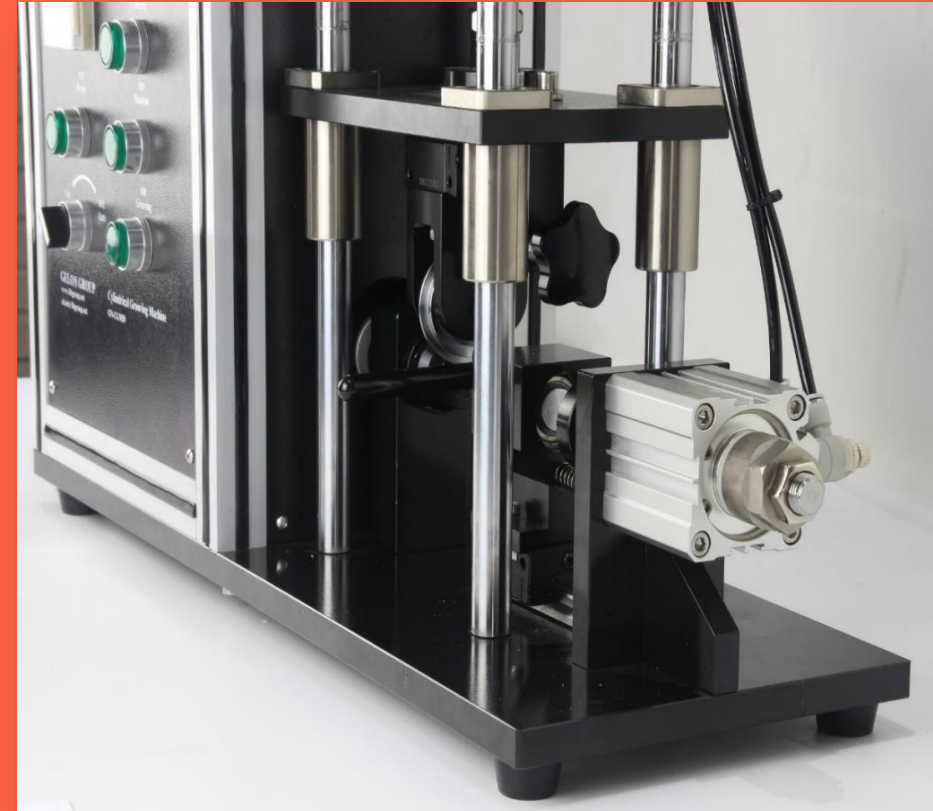
*10. Shipping*

# Machinery Photographs

**SEMI AUTOMATIC WINDING MACHINE**



**GROOVING MACHINE**

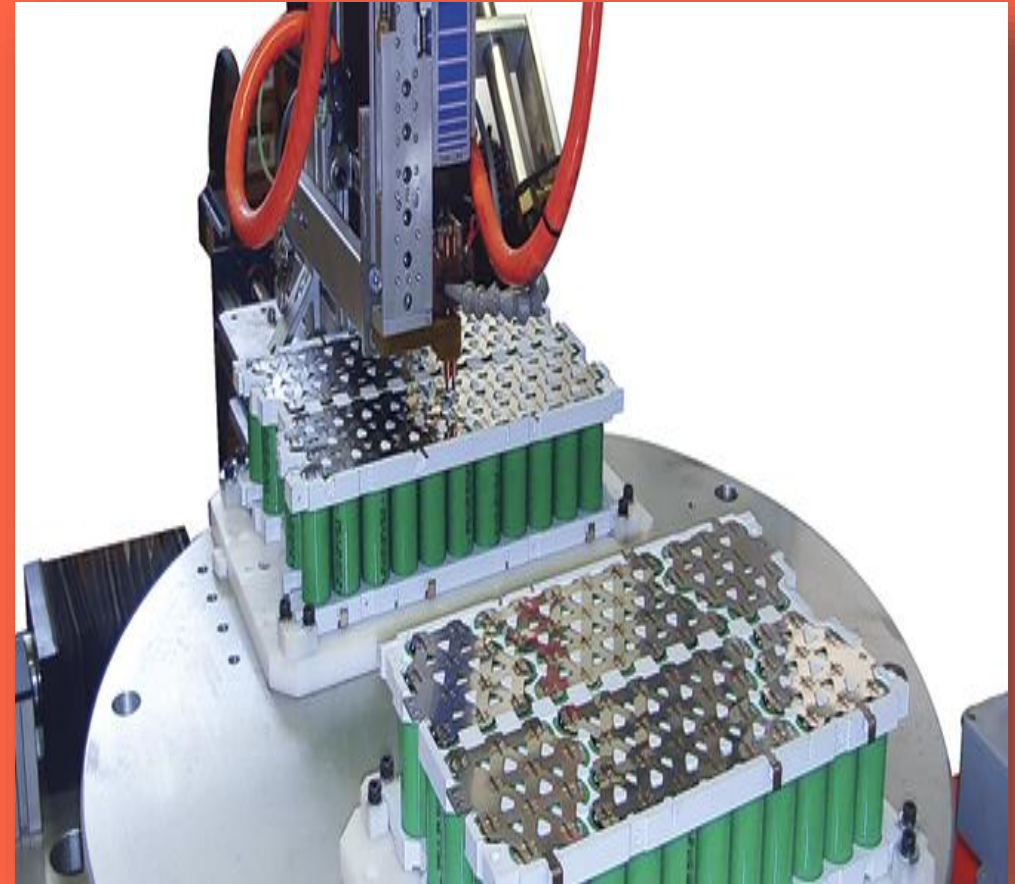




## **SEALING MACHINE**



## **AUTOMATIC LASER WELDING STATION**



# Outlook

The [lithium ion battery](#) market is estimated to increase at a CAGR of 12.6 percent from 2020 to 2027, reaching USD 3,203.01 million by 2027. The market is expanding due to the growing demand for lithium ion batteries in medical devices. Lithium ions flow from the negative electrode to the positive electrode through the electrolyte during charging and backwards during discharging in a [lithium ion battery](#).

- **Related Feasibility Study Project:** [Battery Projects, Automobile Batteries, Lead Acid Battery, Lithium Battery, Lithium-Ion \(Li-Ion\) Battery, Maintenance Free Rechargeable Battery, Battery Recycling, Battery Plate, Battery Separator](#)



*These rechargeable batteries are widely utilised in consumer electronics and autos. Cathode, anode, separator, and electrolyte are the four components. Anode aids in the storage and release of lithium ions from the cathode, allowing current to flow through an external circuit.*



- **Read our Book Here: [Automobile Industry, Automotive Components & Allied Products Engine Parts, Piston, Pin, Piston Ring, Valve, Control Cable, Engine Mounting, Auto Lock, Disc Brake, Drum, Gear, Leaf Spring, Shock Absorber, Silencer, Chain, Cylinder Block, Chassis, Battery](#)**




*The lithium iron phosphate batteries market is expected to grow at a CAGR of 5.0 percent from an estimated USD 8.3 billion in 2019 to USD 10.6 billion by 2024. The increased focus on electric and hybrid electric vehicles, as well as rising demand for energy storage applications, are responsible for this expansion.*



# Project at a Glance

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	177.50	177.50	Capital	0.00	347.11	347.11
Buildings	0.00	206.25	206.25	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	405.90	405.90	Other Type Share Capital	0.00	0.00	0.00
Motor Vehicles	0.00	20.00	20.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	45.50	45.50	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	30.00	30.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	1041.32	1041.32
Preliminary& Pre-operative Exp	0.00	8.00	8.00	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	37.60	37.60	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	457.68	457.68				
<b>TOTAL</b>	<b>0.00</b>	<b>1388.42</b>	<b>1388.42</b>	<b>TOTAL</b>	<b>0.00</b>	<b>1388.42</b>	<b>1388.42</b>



Year	Annualised		Book Value	Debt	Dividend	Retained Earnings		Payout	Probable Market Price	P/E Ratio	Yield Price/ Book Value
	EPS	CEPS				Per Share					
	USD	USD	USD	USD	USD	%	USD	%	USD		%
1-2	748.86	1029.17	758.86	2400.00	0.00	100.00	748.86	0.00	748.86	1.00	0.00
2-3	1008.84	1251.81	1767.70	1800.00	0.00	100.00	1008.84	0.00	1008.84	1.00	0.00
3-4	1284.36	1495.32	3052.07	1200.00	0.00	100.00	1284.36	0.00	1284.36	1.00	0.00
4-5	1551.74	1735.21	4603.81	600.00	0.00	100.00	1551.74	0.00	1551.74	1.00	0.00
5-6	1807.29	1967.15	6411.10	0.00	0.00	100.00	1807.29	0.00	1807.29	1.00	0.00
						 AN ISO 9001 : 2015 CERTIFIED COMPANY					

Year	D. S. C. R.			Debt / - Deposits Debt	Equity as- Equity	Total Net Worth	Return on Net Worth	 AN ISO 9001 : 2015 CERTIFIED COMPANY           Profitability Ratio					Assets Turnover Ratio	Current Ratio
	Individual	Cumulative	Overall					GPM	PBT	PAT	Net Contributi on	P/V Ratio		
	(Number of times)			(Number of times)	%	%	%	%	%	%	%			
<b>Initial</b>				<b>3.00</b>	<b>3.00</b>									
<b>1-2</b>	<b>1.49</b>	<b>1.49</b>		<b>1.37</b>	<b>1.37</b>	<b>7.11</b>		<b>3.04%</b>	<b>1.58%</b>	<b>1.07%</b>	<b>1409.85</b>	<b>5.78%</b>	<b>4.98</b>	<b>1.11</b>
<b>2-3</b>	<b>1.80</b>	<b>1.64</b>		<b>0.65</b>	<b>0.65</b>	<b>4.85</b>		<b>3.27%</b>	<b>1.89%</b>	<b>1.23%</b>	<b>1629.44</b>	<b>5.73%</b>	<b>5.10</b>	<b>1.15</b>
<b>3-4</b>	<b>2.18</b>	<b>1.81</b>	<b>2.18</b>	<b>0.30</b>	<b>0.30</b>	<b>3.57</b>		<b>3.42%</b>	<b>2.14%</b>	<b>1.37%</b>	<b>1861.85</b>	<b>5.73%</b>	<b>5.08</b>	<b>1.19</b>
<b>4-5</b>	<b>2.63</b>	<b>1.99</b>		<b>0.11</b>	<b>0.11</b>	<b>2.77</b>		<b>3.51%</b>	<b>2.32%</b>	<b>1.47%</b>	<b>2094.26</b>	<b>5.73%</b>	<b>5.01</b>	<b>1.25</b>
<b>5-6</b>	<b>3.14</b>	<b>2.18</b>		<b>0.00</b>	<b>0.00</b>	<b>2.23</b>		<b>3.57%</b>	<b>2.44%</b>	<b>1.54%</b>	<b>2326.67</b>	<b>5.73%</b>	<b>4.90</b>	<b>1.35</b>



## BEP

**BEP - Maximum Utilisation Year**

**5**

**Cash BEP (% of Installed Capacity)**

**54.89%**

**Total BEP (% of Installed Capacity)**

**57.27%**

## IRR, PAYBACK and FACR

**Internal Rate of Return .. ( In %age )**

**31.82%**

**Payback Period of the Project is ( In Years )**

**2 Years 3 Months**

**Fixed Assets Coverage Ratio ( No. of times )**

**71.525**

- 1. What is Lithium Ion Battery (LiFePO<sub>4</sub>) Manufacturing industry ?**
- 2. How has the Lithium Ion Battery (LiFePO<sub>4</sub>) Manufacturing industry performed so far and how will it perform in the coming years ?**
- 3. What is the Project Feasibility of Lithium Ion Battery (LiFePO<sub>4</sub>) Manufacturing Plant ?**
- 4. What are the requirements of Working Capital for setting up Lithium Ion Battery (LiFePO<sub>4</sub>) Manufacturing plant ?**



- 5. What is the structure of the Lithium Ion Battery (LiFePO<sub>4</sub>) Manufacturing Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Lithium Ion Battery (LiFePO<sub>4</sub>) Manufacturing Business?**
- 7. What are the operating costs for setting up Lithium Ion Battery (LiFePO<sub>4</sub>) Manufacturing plant ?**
- 8. What are the machinery and equipment requirements for setting up Lithium Ion Battery (LiFePO<sub>4</sub>) Manufacturing plant ?**

- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Lithium Ion Battery (LiFePO<sub>4</sub>) Manufacturing plant ?**
- 10. What are the requirements of raw material for setting up Lithium Ion Battery (LiFePO<sub>4</sub>) Manufacturing plant ?**
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up Lithium Ion Battery (LiFePO<sub>4</sub>) Manufacturing Business?**
- 12. What is the Manufacturing Process of Lithium Ion Battery (LiFePO<sub>4</sub>)?**



**13. What is the total size of land required for setting up Lithium Ion Battery (LiFePO<sub>4</sub>) Manufacturing plant ?**

**14. What will be the income and expenditures for Lithium Ion Battery (LiFePO<sub>4</sub>) Manufacturing Business?**

**15. What are the Projected Balance Sheets of Lithium Ion Battery (LiFePO<sub>4</sub>) Manufacturing plant ?**

**16. What are the requirement of utilities and overheads for setting up Lithium Ion Battery (LiFePO<sub>4</sub>) Manufacturing plant?**

**17. What is the Built up Area Requirement and cost for setting up Lithium Ion Battery (LiFePO<sub>4</sub>) Manufacturing Business?**

**18. What are the Personnel (Manpower) Requirements for setting up Lithium Ion Battery (LiFePO<sub>4</sub>) Manufacturing Business?**

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*#liionbattery*

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*#lithiumionbattery*

*#lithiumionbatteries*

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*#solarbattery*

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- **Export-Import Market Potential**
- **Raw Material & Manpower Availability**
- **Project Costs and Payback Period**

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- NRI's
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- 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
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- Cereal Processing
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- Cold Storage For Fruits & Vegetables
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- 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
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- 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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# ***NIIR PROJECT CONSULTANCY SERVICES***

**AN ISO 9001 : 2015 CERTIFIED COMPANY**



**AN ISO 9001 : 2015 CERTIFIED COMPANY**

# ***NIIR PROJECT CONSULTANCY SERVICES***

# **Entrepreneur** **India**

# Contact us

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A black rectangular sign with rounded corners is hanging from a light brown string against a white brick wall. The sign has the words 'THANK YOU!' written on it in a white, hand-drawn, sans-serif font. The string is attached to two small holes at the top of the sign.

**THANK YOU!**

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