



**Electric Motor Production Business.**

**Industrial Motor Manufacturing  
Industry**

***India Electric Motors Market to Cross \$  
2.25 Billion by 2023***

# **Introduction**

**Electric motor is the electro-mechanical machine which converts the electrical energy into mechanical energy. In other words, the devices which produce rotational force is known as the motor. The working principle of the electric motor mainly depends on the interaction of magnetic and electric field. The electric motor is mainly classified into two types. They are the AC motor and the DC motor. The AC motor takes alternating current as an input, whereas the DC motor takes direct current.**



## **Advantages of Electric Motors:**

**Electric motors have a number of advantages when compared to traditional engines. The initial cost of an electric motor is much lower than a fossil-fuel engine with the same horsepower rating. Electric motors have relatively few moving parts, which means they have a longer lifespan. Typically, an electric motor that is properly maintained offers up to 30,000 hours of operating life without needing major repairs. Overall, electric motors require minimal maintenance service.**

**Additionally, electric motors are highly efficient, and automated controls allow for automatic and remote start and stop functions.**

**Electric motors don't require fuel, so there is no engine oil maintenance or battery service, and they don't freeze in sub-zero temperatures.**

**Low Initial Cost** - The initial cost of an electric motor is considerably lower than a fossil-fuel engine with the same Output Horsepower Rating (in nearly every case).

**Long Life** - Because electric motors contain relatively few moving parts, they have extensive operational life spans. For instance, an appropriately selected and maintained electric motor offers up to 30,000 hours of operating life without major repairs. (This is the approximate equivalent of 3½ years of perpetual usage.)

**Low Maintenance Requirements** - Electric motors are durable and have extensive operating life and minimal service requirements.

**High Efficiency** - Electric motors are highly-efficient with ratings that range from 50% to 95% (depending on the motor's size and operating conditions).

**Automated Control** - Automated controls are easily installed to operate electric motors, providing the versatility of automatic and remote Start/Stop functions.

**No Fossil Fuels** - They require NO fuel, engine oil maintenance, battery service, and do NOT freeze in sub-zero temperatures.

**Labor Cost Savings** - Electric motors reduce requirements for labor due to lower maintenance and easier control which ultimately makes production more profitable by reducing costs).

**Occupational Safety** - Motors contribute to the safety of the work environment, emitting little noise, NO exhaust, and without flammable fuels.

## **Market Outlook**

**Electric motors are the essential of every industry in India. AC and DC type electric motors are integral parts of Electric equipment industry in India. However the electric motors also use for domestic purpose. Agriculture and industrial sectors are the main consumers of Electric motor Industry in India consuming more than 75 percent of consumption.**

**India electric motors market is driven by growing awareness towards energy conservation, surging acceptance of electric vehicles, and improving industrial infrastructure in the country. The market is further fuelled by growing HVAC industry, rapid urbanization, and stringent regulations toward power consumption. Electric motors are attributable to nearly 30% of the power consumption in the industries.**

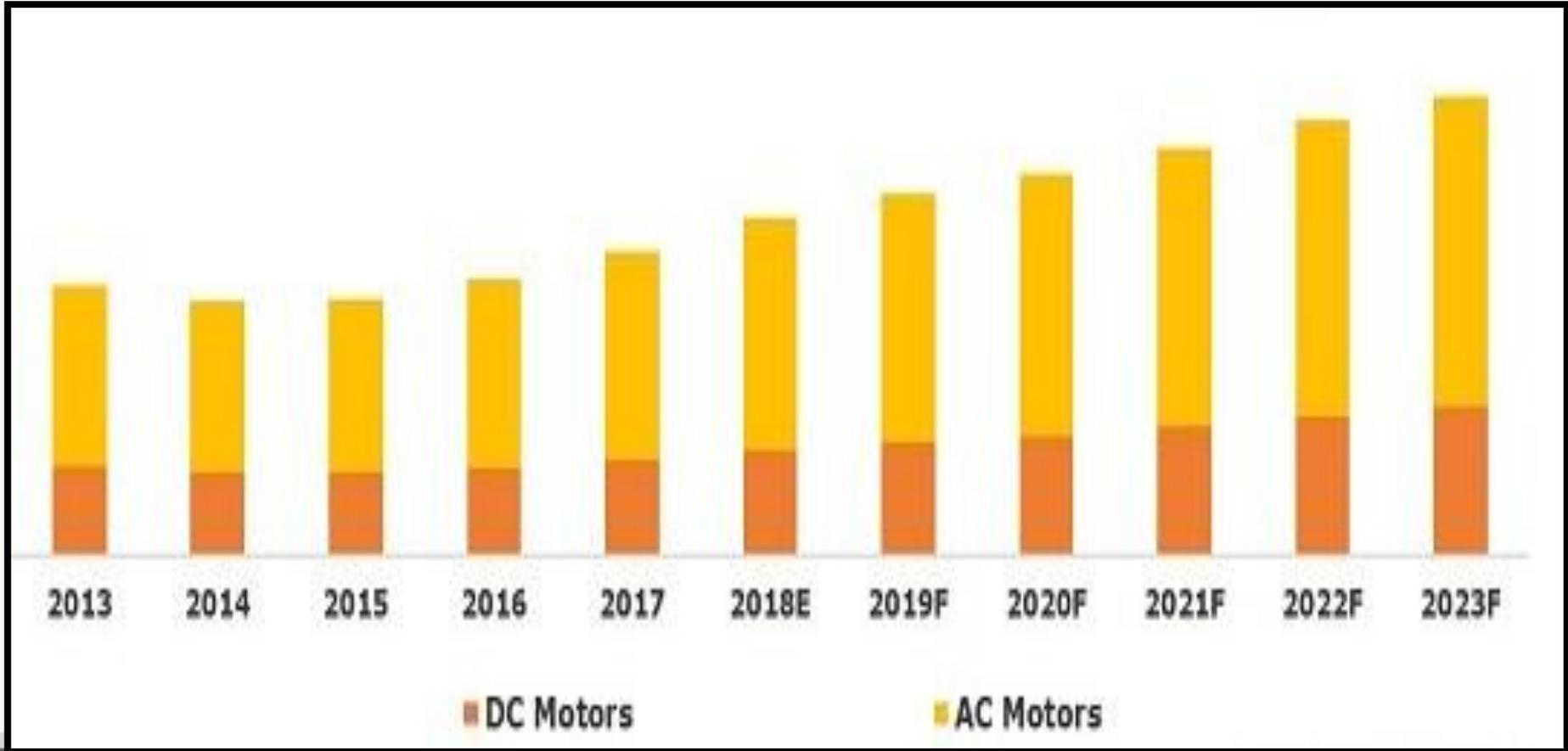
**Manufacturers are continuously coming up with product innovation and improved technologies in motor drives. Energy efficient motor is the upcoming trend in the electric motors market.**

**AC electric motors dominate the country's electric motors market, as these motors are more efficient and are widely used in industrial and residential sectors. In 2017, industrial sector held the largest market share in terms of value and is expected to maintain its market dominance during the forecast period as well. The industrial compressors industry in India, valued at \$ 673 million in 2018, is forecast to grow at a CAGR of 7% until 2023, thereby boosting demand for electric motors. In India, largest demand for electric motors is being witnessed in the western region, backed by increasing number of industries in the region. Moreover, growing number of government initiatives can be attributed to the region's dominance in India electric motors market.**

**India electric motors market is projected to surpass \$ 2.25 billion by 2023. Anticipated growth in the market can be attributed to increasing number of industries and construction activities in the country, in addition to growing government focus towards adoption of energy efficient motors. Moreover, rising population in tier II and tier III cities, increasing urbanization, and government initiatives such as Make in India, Smart City Mission, affordable housing, AMRUT, etc., are expected to positively influence the electric motors market in India during forecast period.**



## Indian Electric Motor Market Size, By Type, By Value, 2013-2023F



## **Global Electric Motors Market**

**The global electric motors market is expected to face significant rise in the coming years due to its uses in broad range of commercial, residential, and industrial applications. These applications generally comprises of refrigerators, elevators, compressors, pumps, fans, and various other systems. Rise in stringent regulations regarding electricity consumption is boosting the growth of the market. Increasing need to reduce the gas effects of green house is bolstering the global market growth. Positive outlook of the manufacturing industries have the potential to boost the market growth of electric motors.**

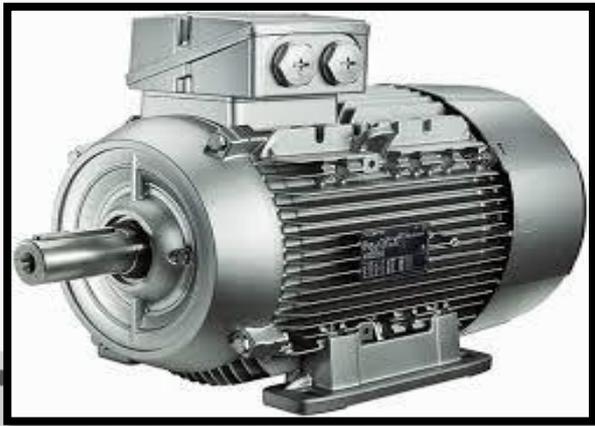
**Since electric motor is the most important component used in production of heating, ventilating, and cooling equipment of motor vehicles, it is being majorly demanded in the market. It also finds applications in various home appliances. Rise in earning level leading to increasing disposable income is majorly boosting the demand for global electric motors market. This has led to improved standards of living which is also supplementing the market growth. Optimizing electrical consumption by using energy efficient electric motors is minimizing financial burden on government and consumers.**

**The global electric motors market is anticipated to attain a valuation of US\$ 120.68 bn by the end of 2019.**

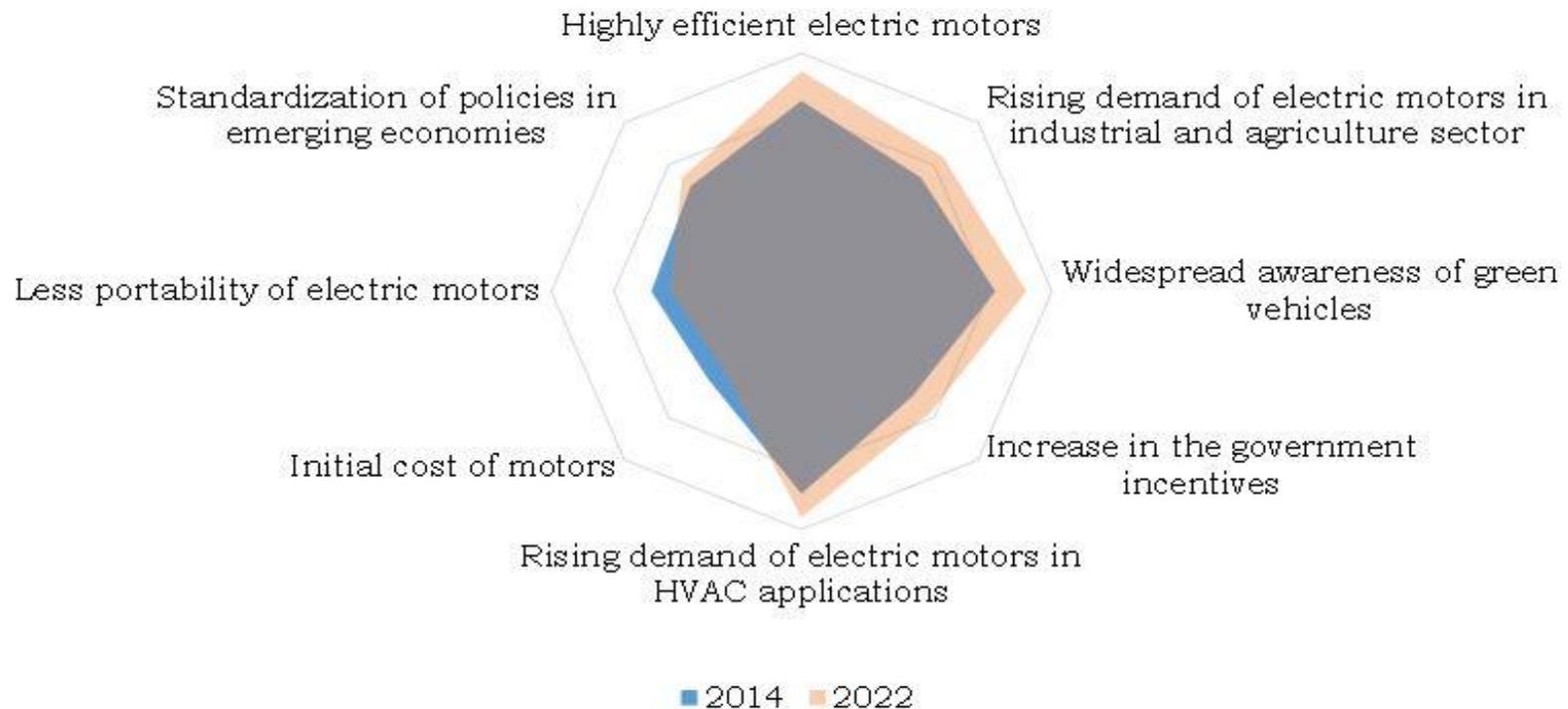
**On the basis of output power capacity, the global electric motors Market is segmented into fractional horsepower and integral horsepower motors. Of these, fractional horsepower segment lead in the market. However it is estimated that the integral horsepower motors will witness a rapid growth in terms of CAGR in the years to come. The main reason behind the high demand for integral horsepower motors is stringent electricity consumption rules. The growing importance of Energy Efficiency will create a heightened demand for energy-efficient electric motors within industrial sectors.**

**The electric motor market in the Asia-Pacific region is primarily driven by a number of factors, such as economic growth in the emerging nations, increasing penetration of electric vehicles, and rising industrial activities.**

**Moreover, the demand for energy-efficient electric motors from the oil & gas production sites apart from the residential and commercial sector in the Asia-Pacific region has seen an unprecedented increase during the past few years and is expected to increase further during the forecast period. Furthermore, industries, such as automotive, chemical, fertilizers and petrochemical are witnessing steady growth in the region, which is expected to offer tremendous growth opportunity for the global electric motor players in the Asia-Pacific region.**



# Global Electric Motor Market top Impacting Factors



**The usage of types of motors in any application depends on the requirements of the application. Therefore, the introduction of advanced electric motors has increased the popularity of high-tech equipment such as robots and electric cars. Moreover, the global electric motor market is segmented based on the output power of the electric motor and their applications in end-user industries such as industrial machinery, transportation, motor vehicles, household appliances, and heating ventilation & air conditioning.**

**With the automobile industry making huge investments to cater to stringent pollution standards, the electric vehicle industry is set to grow exponentially, paving an opportunistic way for electric motors industry participants.**

**These stringent regulations regarding curbing CO2 emissions will impact the industry growth positively. OEMs are pushed to reduce their fleet emissions that will be challenging along with ICE optimization. Achieving these targets after 2020 will require electrification, thereby strengthening the product penetration. However, operational & supply chain issues may act as challenge to the industry participants. These issues may include product delivery mismanagement or difference in expectations of manufacturer & customer regarding service quality. Probability of product failure due to overheating and low resistance is another factor negatively impacting the industry growth.**

**Shifting consumer preference towards solar powered consumer goods has instigated immense potential to the industry size.**

**These products have gained traction owing to provision of the benefits such as product efficiency and low power consumption. U.S. department of Energy (DOE) is making huge investments for development of superior efficiency products and promoting solar energy usage. Their rising usage has accelerated the electric motors production, thereby supporting the high revenue generation till 2024.**



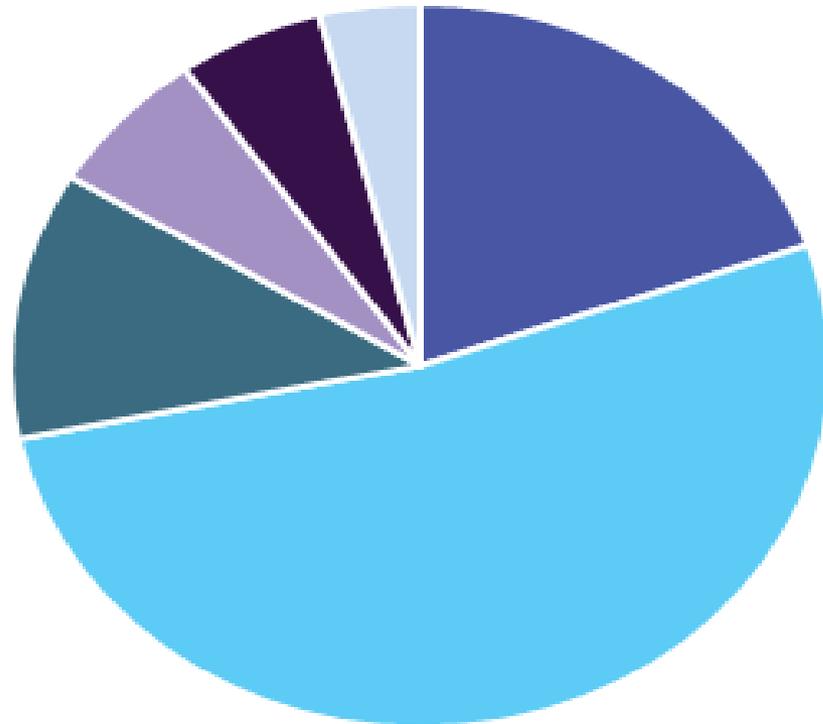
# Global Electric Motor Market Share (%), By Region (2017)



**The rising fuel prices and pollution has led to an increasing demand for electric vehicles in developed and emerging economies such as Germany, the U.S., China and Japan. Moreover, the adoption of electric motors in the automotive industry has risen considerably owing to the advent of low-cost and highly efficient electronics coupled by improvements in permanent magnetic materials.**



# Asia Pacific electric motors market share by application, 2016 (%)



- Industrial Machinery
- HVAC Equipment
- Household Appliances
- Motor Vehicles
- Aerospace & Transportation
- Others

# Machinery Photographs



**Fuel Storage Tank**



**Drilling Machine**



**Portable Cut-off Machine**



**Winding Machine**

# Project at a Glance

## PROJECT AT A GLANCE

(` in lacs)

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	70.00	70.00	Capital	0.00	78.23	78.23
Buildings	0.00	71.40	71.40	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	59.14	59.14	Other Type Share			
Motor Vehicles	0.00	6.00	6.00	Capital	0.00	0.00	0.00
Office Automation Equipments	0.00	41.50	41.50	Reserves & Surplus	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	20.00	20.00	Cash Subsidy	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Internal Cash Accruals	0.00	0.00	0.00
Preliminary & Pre-operative Exp	0.00	2.50	2.50	Long/Medium Term Borrowings	0.00	234.69	234.69
Provision for Contingencies	0.00	6.00	6.00	Debentures / Bonds	0.00	0.00	0.00
Margin Money - Working Capital	0.00	36.38	36.38	Unsecured Loans/Deposits	0.00	0.00	0.00
<b>TOTAL</b>	<b>0.00</b>	<b>312.92</b>	<b>312.92</b>	<b>TOTAL</b>	<b>0.00</b>	<b>312.92</b>	<b>312.92</b>

# Project at a Glance

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				
					Per Share	%		%		No.of Times	%
1-2	5.76	8.80	15.76	24.00	0.00	100.00	5.76	0.00	5.76	1.00	0.00
2-3	9.21	11.91	24.96	18.00	0.00	100.00	9.21	0.00	9.21	1.00	0.00
3-4	12.56	14.96	37.53	12.00	0.00	100.00	12.56	0.00	12.56	1.00	0.00
4-5	15.75	17.88	53.27	6.00	0.00	100.00	15.75	0.00	15.75	1.00	0.00
5-6	18.73	20.64	72.00	0.00	0.00	100.00	18.73	0.00	18.73	1.00	0.00

# Project at a Glance

Year	D. S. C. R.			Debt / Equity - Deposits Debt	Equity as-Equity	Total Net Worth	Return on Net Worth	Profitability Ratio					Assets Turnover Ratio	Current Ratio
	Individual	Cumulative	Overall					GPM	PBT	PAT	Net Contribution	P/V Ratio		
	(Number of times)			(Number of times)		%	%	%	%	%	%			
Initial				3.00	3.00									
1-2	1.30	1.30		1.52	1.52	3.01	9.51%	4.67%	3.13%	393.17	27.30%	3.02	1.05	
2-3	1.69	1.49		0.72	0.72	1.80	10.79%	6.64%	4.29%	455.19	27.09%	3.16	1.22	
3-4	2.14	1.68	2.12	0.32	0.32	1.14	11.64%	8.03%	5.12%	520.14	27.09%	3.13	1.44	
4-5	2.66	1.90		0.11	0.11	0.76	12.20%	8.99%	5.70%	585.08	27.09%	2.99	1.70	
5-6	3.27	2.12		0.00	0.00	0.53	12.55%	9.65%	6.11%	650.02	27.08%	2.82	2.28	

# Project at a Glance

## BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	61.98%
Total BEP (% of Installed Capacity)	64.28%
IRR, PAYBACK and FACR	
Internal Rate of Return .. ( In %age )	29.07%
Payback Period of the Project is ( In Years )	2 Years 3 Months
Fixed Assets Coverage Ratio ( No. of times )	13.508

# Major Queries/Questions Answered in the Report?

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

- 5. What is the structure of the Electric Motors Manufacturing Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Electric Motors Manufacturing Business?**
- 7. What are the operating costs for setting up Electric Motors Manufacturing plant ?**
- 8. What are the machinery and equipment requirements for setting up Electric Motors Manufacturing plant ?**

**9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Electric Motors Manufacturing plant ?**

**10. What are the requirements of raw material for setting up Electric Motors Manufacturing plant ?**

**11. Who are the Suppliers and Manufacturers of Raw materials for setting up Electric Motors Manufacturing Business?**

**12. What is the Manufacturing Process of Electric Motors?**

- 13. What is the total size of land required for setting up Electric Motors Manufacturing plant ?**
- 14. What will be the income and expenditures for Electric Motors Manufacturing Business?**
- 15. What are the Projected Balance Sheets of Electric Motors Manufacturing plant ?**
- 16. What are the requirement of utilities and overheads for setting up Electric Motors Manufacturing plant?**
- 17. What is the Built up Area Requirement and cost for setting up Electric Motors Manufacturing Business?**

**18. What are the Personnel (Manpower) Requirements for setting up Electric Motors Manufacturing Business?**

**19. What are Statistics of Import & Export for Electric Motors?**

**20. What is the time required to break-even of Electric Motors Manufacturing Business?**

**21. What is the Break-Even Analysis of Electric Motors Manufacturing plant?**

**22. What are the Project financials of Electric Motors Manufacturing Business?**

- 23. What are the Profitability Ratios of Electric Motors Manufacturing Project?**
- 24. What is the Sensitivity Analysis-Price/Volume of Electric Motors Manufacturing plant?**
- 25. What are the Projected Pay-Back Period and IRR of Electric Motors Manufacturing plant?**
- 26. What is the Process Flow Sheet Diagram of Electric Motors Manufacturing project?**

- 27. What are the Market Opportunities for setting up Electric Motors Manufacturing plant?**
- 28. What is the Market Study and Assessment for setting up Electric Motors Manufacturing Business?**
- 29. What is the Plant Layout for setting up Electric Motors Manufacturing Business?**

# Table of Contents of the Project Report

## **1. PROJECT LOCATION**

- 1.1. DISTRICT PROFILE & GEOTECHNICAL SITE CHARACTERIZATION
  - 1.1.1. General
  - 1.1.2. Location & Geographical Area
  - 1.1.3. Physical Characteristics
  - 1.1.4. Map
  - 1.1.5. Rainfall
  - 1.1.6. Climate
  - 1.1.7. Administration
  - 1.1.8. Demographics
  - 1.1.9. Economy
  - 1.1.10. Culture and attitudes
  - 1.1.11. Transport

## **2. INTRODUCTION**

### **3. TYPES OF ELECTRIC MOTOR**

- 3.1. DIRECT CURRENT MOTOR
- 3.2. ALTERNATING CURRENT MOTORS
- 3.3. OTHER MOTORS

### **4. WORKING PRINCIPLE OF ELECTRIC MOTOR**

- 4.1. DC MOTOR
- 4.2. WORKING PRINCIPAL OF A DC MOTOR
- 4.3. INDUCTION MOTOR
- 4.4. WORKING PRINCIPLE OF INDUCTION MOTOR

### **5. B.I.S. SPECIFICATION**



- 5.1. IS: 1941-1976 FUNCTIONAL REQUIREMENTS FOR ELECTRIC MOTOR SIENS.
- 5.2. IS:2968- 1964 DIMENSIONS OF SLIDE RAILS FOR ELECTIRC MOTORS
- 5.3. IS: 4665-1984- SPECIFICATION FOR PORTABLE ELECTRIC MOTOR OPERATED TOOL
- 5.4. IS:9334-1986SPECIFICATION FOR ELECTRIC MOTOR OPERATED ACTUATORS

## **6. MARKET SURVEY**

### **7. EXPORT & IMPORT: ALL COUNTRIES**

- 7.1. EXPORT: ALL COUNTRIES
- 7.2. IMPORT: ALL COUNTRIES

### **8. FINANCIALS & COMPARISON OF MAJOR INDIAN PLAYERS/COMPANIES**

- 8.1. ABOUT FINANCIAL STATEMENTS OF CMIE DATABASE
- 8.2. PROFITS & APPROPRIATIONS
- 8.3. TOTAL LIABILITIES
- 8.4. TOTAL ASSETS
- 8.5. NET CASH FLOW FROM OPERATING ACTIVITIES
- 8.6. SECTION – I
  - 8.6.1. Name of Company with Contact Details
  - 8.6.2. Name of Director(S)
  - 8.6.3. Plant Capacity
  - 8.6.4. Location of Plant
  - 8.6.5. Name of Raw Material(S) Consumed With Quantity & Cost
- 8.7. SECTION – II
  - 8.7.1. Assets
  - 8.7.2. Cash Flow
  - 8.7.3. Cost as % Ge of Sales
  - 8.7.4. Forex Transaction

- 8.7.5. Growth in Assets & Liabilities
- 8.7.6. Growth in Income & Expenditure
- 8.7.7. Income & Expenditure
- 8.7.8. Liabilities
- 8.7.9. Liquidity Ratios
- 8.7.10. Profitability Ratio
- 8.7.11. Profits
- 8.7.12. Return Ratios
- 8.7.13. Structure of Assets & Liabilities (%)
- 8.7.14. Working Capital & Turnover Ratios

## **9. EXPORT & IMPORT STATISTICS DATA OF INDIA**

- 9.1. EXPORT STATISTICS DATA FOR ELECTRIC MOTOR
- 9.2. IMPORT STATISTICS DATA FOR ELECTRIC MOTOR

## **10. PRESENT MANUFACTURERS**

## **11. INDUCTION MOTOR WORKING PRINCIPLE**

- 11.1. TYPES OF INDUCTION MOTOR
- 11.2. SYNCHRONOUS MOTOR

## **12. BASIC COMPONENTS OF ELECTRIC MOTOR**

- 12.1. MOTOR COMPONENTS
- 12.2. INSULATING COMPONENTS
- 12.3. BASIC PARTS FOR AC MOTORS
- 12.4. TYPES OF BEARINGS

## **13. TYPES OF ROTOR**

## **14. ELECTRIC MOTOR NAMEPLATE**

### **15. RAW MATERIAL FOR COMPONENTS OF MOTOR**

- 15.1. BEARINGS
- 15.2. BEARING TYPES

## **16. ASSEMBLING PROCESS**

### **17. QUALITY CONTROL**

- 17.1. LABORATORY EQUIPMENT

## **18. ASSEMBLING PROCESS FLOW DIAGRAM**

### **19. BUYER'S LIST**

- 19.1. CONTACT DETAILS OF BUYER'S
- 19.2. NAME OF DIRECTOR(S)
- 19.3. PLANT CAPACITY
- 19.4. LOCATION OF PLANT
- 19.5. COMPANY WISE CONSUMPTION DETAIL OF THE RAW MATERIALS

## **20. SUPPLIERS OF RAW MATERIAL**

### **21. SUPPLIERS OF PLANT & MACHINERY**

## **22.PHOTOGRAPHS/IMAGES FOR REFERENCE**

- 22.1. RAW MATERIAL PHOTOGRAPHS
- 22.2. MACHINERY PHOTOGRAPHS
- 22.3. PRODUCT PHOTOGRAPHS

## **23.PLANT LAYOUT**

## **24.QUOTATION OF PLANT, MACHINERY AND EQUIPMENTS FROM SUPPLIER**

# *Project Financials*

<b>Project at a Glance</b>	<b>Annexure</b>
• Assumptions for Profitability workings .....	1
• Plant Economics.....	2
• Production Schedule.....	3
• Land & Building.....	4
Factory Land & Building	
Site Development Expenses	

- **Plant & Machinery.....5**
  - Indigenous Machineries**
  - Other Machineries (Miscellaneous, Laboratory etc.)**
  
- **Other Fixed Assets.....6**
  - Furniture & Fixtures**
  - Pre-operative and Preliminary Expenses**
  - Technical Knowhow**
  - Provision of Contingencies**
  
- **Working Capital Requirement Per Month.....7**
  - Raw Material**
  - Packing Material**
  - Lab & ETP Chemical Cost**
  - Consumable Store**

- **Overheads Required Per Month and Per Annum.....8**  
**Utilities & Overheads (Power, Water and Fuel Expenses etc.)**  
**Royalty and Other Charges**  
**Selling and Distribution Expenses**
  
- **Salary and Wages .....9**
  
- **Turnover Per Annum .....10**
  
- **Share Capital.....11**  
**Equity Capital**  
**Preference Share Capital**

- **Annexure 1 :: Cost of Project and Means of Finance**
- **Annexure 2 :: Profitability and Net Cash Accruals**
  - **Revenue/Income/Realisation**
  - **Expenses/Cost of Products/Services/Items**
  - **Gross Profit**
  - **Financial Charges**
  - **Total Cost of Sales**
  - **Net Profit After Taxes**
  - **Net Cash Accruals**

• **Annexure 3 :: Assessment of Working Capital requirements**

- **Current Assets**
- **Gross Working Capital**
- **Current Liabilities**
- **Net Working Capital**
- **Working Note for Calculation of Work-in-process**

• **Annexure 4 :: Sources and Disposition of Funds**

- **Annexure 5 :: Projected Balance Sheets**

- **ROI (Average of Fixed Assets)**
- **RONW (Average of Share Capital)**
- **ROI (Average of Total Assets)**

- **Annexure 6 :: Profitability Ratios**

- **D.S.C.R**
- **Earnings Per Share (EPS)**
- **Debt Equity Ratio**

• **Annexure 7 :: Break-Even Analysis**

- **Variable Cost & Expenses**
- **Semi-Variable/Semi-Fixed Expenses**
- **Profit Volume Ratio (PVR)**
- **Fixed Expenses / Cost**
- **B.E.P**

- **Annexure 8 to 11 :: Sensitivity Analysis-Price/Volume**

- **Resultant N.P.B.T**
- **Resultant D.S.C.R**
- **Resultant PV Ratio**
- **Resultant DER**
- **Resultant ROI**
- **Resultant BEP**

- **Annexure 12 :: Shareholding Pattern and Stake Status**

- **Equity Capital**

- **Preference Share Capital**

- **Annexure 13 :: Quantitative Details-Output/Sales/Stocks**

- **Determined Capacity P.A of Products/Services**

- **Achievable Efficiency/Yield % of Products/Services/Items**

- **Net Usable Load/Capacity of Products/Services/Items**

- **Expected Sales/ Revenue/ Income of Products/ Services/ Items**

- **Annexure 14** :: **Product wise Domestic Sales Realisation**
- **Annexure 15** :: **Total Raw Material Cost**
- **Annexure 16** :: **Raw Material Cost per unit**
- **Annexure 17** :: **Total Lab & ETP Chemical Cost**
- **Annexure 18** :: **Consumables, Store etc.**
- **Annexure 19** :: **Packing Material Cost**
- **Annexure 20** :: **Packing Material Cost Per Unit**

- **Annexure 21** :: **Employees Expenses**
- **Annexure 22** :: **Fuel Expenses**
- **Annexure 23** :: **Power/Electricity Expenses**
- **Annexure 24** :: **Royalty & Other Charges**
- **Annexure 25** :: **Repairs & Maintenance Expenses**
- **Annexure 26** :: **Other Manufacturing Expenses**
- **Annexure 27** :: **Administration Expenses**
- **Annexure 28** :: **Selling Expenses**

- **Annexure 29 :: Depreciation Charges – as per Books (Total)**
- **Annexure 30 :: Depreciation Charges – as per Books (P & M)**
- **Annexure 31 :: Depreciation Charges - as per IT Act WDV (Total)**
- **Annexure 32 :: Depreciation Charges - as per IT Act WDV (P & M)**
- **Annexure 33 :: Interest and Repayment - Term Loans**
- **Annexure 34 :: Tax on Profits**
- **Annexure 35 :: Projected Pay-Back Period and IRR**

# 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 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**

## ***Scope of the Report***

**The report titled “Market Survey cum Detailed Techno Economic Feasibility Report on Electric Motors.” provides an insight into Electric Motors market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Electric Motors project. The report assesses the market sizing and growth of the Indian Electric Motors 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 Electric Motors sector in India along with its business prospects. Through this report we have identified Electric Motors project as a lucrative investment avenue.**

# Tags

Electric Motor, Motor Manufacturing Process, Production of Electric Motors, Manufacturing of Electric Motors, Electric Motor Production, Electric Motor Manufacture, Electric Motor Manufacturing Process Pdf, Manufacturing Process of an Electric Motor, Automatic Electric Motor Production, How Electric Motors are Made, Electric Motor Assembly, Manufacture of Electric Motor, Electric Motor Manufacturing, Motor Manufacturing, Motor Manufacturing Industry, Electric Motors Industry, Industrial Motors, Industrial Electric Motor, Motors Manufacturing Plant, Electric Motor Manufacturing Industry, Manufacture of Small Electric Motors, Small Electric Motor Manufacture, Electric Motors Manufacturing Plant, Low-Cost Electric Motor Manufacture, Production of Electric Motors, Project Report on Motor Manufacturing Industry, Detailed Project Report on Electric Motor Production, Project Report on Electric Motor Production, Pre-Investment Feasibility Study on Electric Motor Production, Techno-Economic feasibility study on Electric Motor Production, Feasibility report on Electric Motor Production, Free Project Profile on Electric Motor Production, Project profile on Electric Motor Production, Download free project profile on Electric Motor Production

**Niir Project Consultancy Services (NPCS)**  
**can provide Detailed Project Report on**  
**Electric Motor Production Business.**  
**Industrial Motor Manufacturing Industry**  
***India Electric Motors Market to Cross \$ 2.25 Billion by***  
***2023***

**See more**

<https://goo.gl/Cx7omJ>

<https://goo.gl/AFw4a4>



*Visit us at*

[www.entrepreneurindia.co](http://www.entrepreneurindia.co)



[www.entrepreneurindia.co](http://www.entrepreneurindia.co)

**Take a look at  
Niir Project Consultancy Services  
on #Street View**

<https://goo.gl/VstWkd>

*Locate us on  
Google Maps*

<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>

# **Free Instant Online Project**

## **Identification and Selection Service**

**Our Team has simplified the process for you by providing a "Free Instant Online Project Identification & Selection" search facility to identify projects based on multiple search parameters related to project costs namely: Plant & Machinery Cost, Total Capital Investment, Cost of the project, Rate of Return% (ROR) and Break Even Point % (BEP). You can sort the projects on the basis of mentioned pointers and identify a suitable project matching your investment requisites.....[Read more](#)**



# Download Complete List of Project

## Reports:

### ▪ Detailed Project Reports

**NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.**

**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

## **NIIR PROJECT CONSULTANCY SERVICES**

106-E, Kamla Nagar, Opp. Spark Mall,

New Delhi-110007, India.

Email: [npcs.ei@gmail.com](mailto:npcs.ei@gmail.com) , [info@entrepreneurindia.co](mailto:info@entrepreneurindia.co)

Tel: +91-11-23843955, 23845654, 23845886, 8800733955

Mobile: +91-9811043595

Fax: +91-11-23845886

Website : [www.entrepreneurindia.co](http://www.entrepreneurindia.co) , [www.niir.org](http://www.niir.org)

Take a look at NIIR PROJECT CONSULTANCY SERVICES on #StreetView

<https://goo.gl/VstWkd>



# **Niir PROJECT CONSULTANCY SERVICES**

**An ISO 9001:2015 Company**



[www.entrepreneurindia.co](http://www.entrepreneurindia.co)

# 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**

# Contact us

## NIIR PROJECT CONSULTANCY SERVICES

106-E, Kamla Nagar, Opp. Spark Mall,  
New Delhi-110007, India.

Email: [npcs.ei@gmail.com](mailto:npcs.ei@gmail.com) , [info@entrepreneurindia.co](mailto:info@entrepreneurindia.co)

Tel: +91-11-23843955, 23845654, 23845886, 8800733955

Mobile: +91-9811043595

Fax: +91-11-23845886

Website : [www.entrepreneurindia.co](http://www.entrepreneurindia.co) , [www.niir.org](http://www.niir.org)

Take a look at NIIR PROJECT CONSULTANCY SERVICES on #StreetView

<https://goo.gl/VstWkd>



# Follow us



➤ <https://www.linkedin.com/company/niir-project-consultancy-services>



➤ <https://www.facebook.com/NIIR.ORG>



➤ <https://www.youtube.com/user/NIIRproject>



➤ <https://plus.google.com/+EntrepreneurIndiaNewDelhi>



➤ [https://twitter.com/npcs\\_in](https://twitter.com/npcs_in)



➤ <https://www.pinterest.com/npcsindia/>





**For more information, visit us at:**

[www.niir.org](http://www.niir.org)

[www.entrepreneurindia.co](http://www.entrepreneurindia.co)



[www.entrepreneurindia.co](http://www.entrepreneurindia.co)