



Manufacturing of **BLDC Fan** **(Brushless DC Motor)**

Increasing Demand for Energy-Efficient Electrical Fans

Introduction

The BLDC motor may be an electric motor that's powered by a DC electric source via an integrated inverter/switching power supply which produces an electrical signal to drive the motor. There are two varieties of motors; brushed motors DC motors and brushless motors. BLDC stands for Brushless DC motors. The BLDC motor may be an electric motor powered by a DC electric source. It uses an integrated inverter power supply to provide an electrical signal to drive the motor.

BLDC stands for brush-less direct-current motor, a special variety of motor which has static magnet rather than electromagnets found during a conventional induction motor. BLDC motor has important advantages over induction motor like low electricity consumption, lesser noise generation and better lifespan.

Related projects:- [Electrical, Electronic Industries and Power Projects](#)

BLDC Fans are DC motor is an electrical motor that's driven by electrical energy (DC) electricity and it accomplishes an electronically controlled commutation system (commutation is that the process of producing motility force within the motor by dynamical part currents through it at appropriate times) instead of an automatically commutation system. BLDC motors are also mentioned as tetragon magnet motors that are positioned round the mechanical device. The electronics contain a driving algorithm that drives the BLDC motor might be an electrical motor that keeps running on the provision of electrical power. In these motor, there's the straight relationship amongst current and torsion moreover within the between voltage and rate of BLDC motor. This straight relationship is that the most reason that the BLDC motor offers wonderful leads to the routine ceiling fans.

Books:- [BOOKS & DATABASES](#)

BLDC Technology

BLDC technology, in general, has been in the market for a couple of decades and it is widely implemented in industries needing high torque motors. What was missing so long is its application in the ceiling fans. That start was done by startups like Versa Drives who offer Super fan and Atom erg which offers Gorilla fans. They are the pioneers of using BLDC motor in the ceiling fans in India. The traditional fan uses an induction motor and typically consumes 70-90 watts. But BLDC fan, on the other hand, can reduce power consumption by up to 65%. The latest line up of Gorilla fans consumes just 28 watts of energy.

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Advantages of BLDC Motor Used in BLDC Fan

Prominent advantages of BLDC motor over induction motor is summarized as:

- Lower Electricity Consumption (65% savings)
- Longer backup on Inverters (even on Solar)
- Improved reliability
- Noise reduction
- Longer lifetime

Related Project:- Brushless DC Motor (BLDC) Fan Production



High-Speed Operation – A BLDC MOTOR will operate at speeds on top of 10,000 revolutions per minute beneath loaded and unloaded conditions.

Responsiveness Acceleration – BLDC motors have low rotor inertia, permitting them to accelerate, decelerate, and reverse direction quickly.

High Power Density – BLDC MOTORS have the best running torsion per cu in of any DC motor.

High responsible – BLDC MOTORS don't have brushes, which means they're a lot of reliable and have life expectations of over 10, 000 hours. This ends up in fewer instances of replacement or repair and fewer overall period for your project.

Projects:- [Project Reports & Profiles](#)



Applications

Brushless motors fulfill many functions originally performed by brushed DC motors, but cost and control complexity prevents brushless motors from replacing brushed motors completely in the lowest-cost areas. Nevertheless, brushless motors have come to dominate many applications, particularly devices such as computer hard drives and CD/DVD players. Small cooling fans in electronic equipment are powered exclusively by brushless motors. They can be found in cordless power tools where the increased efficiency of the motor leads to longer periods of use before the battery needs to be charged. Low speed, low power brushless motors are used in direct-drive turntables for gramophone records.

Market Research:- [Market Research Report](#)

- Transport
- Cordless tools
- Heating and ventilation
- Industrial engineering
- Motion control systems
- Positioning and actuation systems
- Aeromodelling
- Radio-controlled cars

Related Project:- [Brushless DC Motor \(BLDC\) Fan Production](#)



Market Outlook

The global BLDC fan market is flourishing on the rear of increasing demand for cooling systems across varied user applications, including the growing need amongst user industries for advanced technological products that are more efficient and effective and consume less energy. The brushless motors that are attached to the fan blade, have several benefits over conventional motors, like high speed, high power-to-weight ratio, low maintenance and electronic control. Further, brushless motors are smaller in size as compared to a standard motor. Hence, BLDC fans are widely utilized in computer peripherals, vehicles, aircrafts, hand-held power tools and other sophisticated applications. Moreover, increasing trade on fans round the world is additionally anticipated to market significantly towards the expansion of the worldwide BLDC market.

Related Project:- [Brushless DC Motor \(BLDC\) Fan Production](#)

Increasing Disposable Income of Individuals

Modern ceiling fans to be used in domestic purpose are designed to save lots of energy and are given a tint of luxury for greater aesthetic value. Ceiling fans are widely utilized in low- and middle-income nations where individuals cannot afford air conditioning systems. Ceiling fans play a serious role in these households. Increasing income amongst individuals is thereby anticipated to boost the consumption of electrical appliances, like ceiling fan, especially in moderate and temperate climate areas. Such factors are anticipated to drive the expansion of the worldwide BLDC fan market.



BLDC fans which are utilized in domestic applications are priced comparatively high by displaying benefits of greater energy saving and energy efficiency. Individuals with low income in under-developed and a number of other developing nations, who cannot afford such high priced fans, is anticipated to limit the sales of the merchandise, and in turn hamper the expansion of the market. Moreover, lack of product awareness amongst consumers worldwide is additionally anticipated to severely restrain the expansion of the worldwide BLDC fan market.

Related Project:- [Brushless DC Motor \(BLDC\) Fan Production](#)



Growing Demand for Energy-Efficient Electrical Fans

Modern industrial equipment are designed sophisticatedly and have complicated cooling systems. As such, there is a rising demand for cooling systems that are compact and are also energy-efficient. BLDC fan are designed in such a way that they are compact in its size as compared to conventional fans. These fans are also known to have greater air delivery speeds by consuming less energy in comparison to conventional fans. Hence, BLDC fans are widely used across a varied end user industries and applications, which is anticipated to drive the growth of the global BLDC fan market.

Projects:- [Project Reports & Profiles](#)



The global BLDC fan market is anticipated to record a significant CAGR throughout the forecast period, i.e. 2020-2028. Increasing demand for cooling systems across varied end user applications, growing need amongst end user industries for advanced technological products that are more efficient and effective and consume less energy, along with the increasing trade on fans around the world is also anticipated to promote significantly towards the growth of the global BLDC market.

Fans are one among the electrical appliances which became almost indispensable in Indian homes and even offices. Blower may be a high penetration product category and is extremely high in terms of purchase priority amongst durables.

Market Research:- [Market Research Report](#)



The market size of fan in value terms is kind of large and it's the most important selling item within the brown goods category. Fan as a product category has no major regional disparities in sale. Much of the sale of organized sector is within the metro, tier I and tier II markets. National brands have built their brand image over a period of your time through sustained advertising and an honest dealer network. Moreover, the export of fans from India has grown considerably within the previous couple of years and may be a testimony to the standard and development of fan industry in India.

Projects:- [Project Reports & Profiles](#)

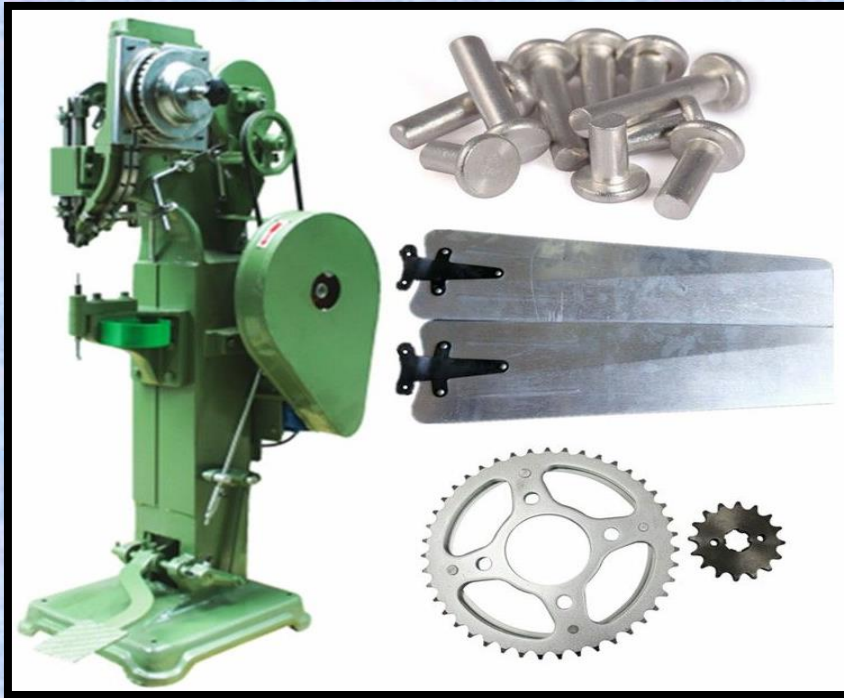


Key Players

- Advanced Appliances Pvt. Ltd.
- Delco Fans Pvt. Ltd.
- Goa Electricals & Fans Ltd.
- Jiwa Appliances Ltd
- Kedia Soft Solutions Ltd.
- Khaitan Electricals Ltd

- Khaitan Fans (India) Ltd.
- Nicotra India Pvt. Ltd.
- Omnia Appliances Pvt. Ltd.
- Orient General Inds. Ltd.
- Parag Fans & Cooling Systems Ltd.
- Polar Fan Inds. Ltd.
- Polar Industries Ltd
- Rallis Machines Ltd.
- Reitz India Ltd
- Remi Engineering Fans Ltd.
- Sheffield Appliances Ltd

Machinery Photographs



Riveting Machine



Winding Machine



Punching Machine



Fitting Section-Working Station

Project at a Glance

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site							
Development Exp.	0.00	105.00	105.00	Capital	0.00	89.82	89.82
Buildings	0.00	81.60	81.60	Share Premium	0.00	0.00	0.00
				Other Type Share			
Plant & Machineries	0.00	47.50	47.50	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							
Equipments	0.00	28.00	28.00	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow				Internal Cash			
Fees & Exp.	0.00	10.00	10.00	Accruals	0.00	0.00	0.00
Franchise & Other				Long/Medium Term			
Deposits	0.00	0.00	0.00	Borrowings	0.00	269.46	269.46
Preliminary & Pre-operative Exp	0.00	2.00	2.00	Debentures / Bonds	0.00	0.00	0.00
Provision for				Unsecured			
Contingencies	0.00	4.50	4.50	Loans/Deposits	0.00	0.00	0.00
Margin Money -							
Working Capital	0.00	70.68	70.68				
TOTAL	0.00	359.28	359.28	TOTAL	0.00	359.28	359.28

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	6.63	8.98	16.63	24.00	0.00	100.00	6.63	0.00	6.63	1.00	0.00
2-3	10.03	12.11	26.66	18.00	0.00	100.00	10.03	0.00	10.03	1.00	0.00
3-4	13.36	15.19	40.02	12.00	0.00	100.00	13.36	0.00	13.36	1.00	0.00
4-5	16.48	18.10	56.50	6.00	0.00	100.00	16.48	0.00	16.48	1.00	0.00
5-6	19.36	20.80	75.86	0.00	0.00	100.00	19.36	0.00	19.36	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		
Initial	(Number of times)			(Number of times)	%	%	%	%	%	%	%			
1-2	1.34	1.34		3.00	3.00	4.26	5.38%	2.97%	1.95%	492.03	16.08%	3.94	1.09	
2-3	1.75	1.54		0.68	0.68	2.70	6.09%	3.93%	2.52%	563.33	15.78%	4.06	1.18	
3-4	2.21	1.75	2.19	0.30	0.30	1.84	6.56%	4.62%	2.94%	643.55	15.77%	4.02	1.30	
4-5	2.74	1.96		0.11	0.11	1.33	6.85%	5.09%	3.22%	723.77	15.77%	3.90	1.43	
5-6	3.32	2.19		0.00	0.00	1.01	7.01%	5.39%	3.41%	803.99	15.76%	3.73	1.69	

Project at a Glance

BEP	
BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	63.98%
Total BEP (% of Installed Capacity)	65.59%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	29.58%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	24.778

Major Queries/Questions Answered in the Report?

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

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

9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up BLDC Fan Manufacturing plant ?

10. What are the requirements of raw material for setting up BLDC Fan Manufacturing plant ?

11. Who are the Suppliers and Manufacturers of Raw materials for setting up BLDC Fan Manufacturing Business?

12. What is the Manufacturing Process of BLDC Fan ?

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

18. What are the Personnel (Manpower) Requirements for setting up BLDC Fan Manufacturing Business?

19. What are Statistics of Import & Export for BLDC Fan ?

20. What is the time required to break-even of BLDC Fan Manufacturing Business?

21. What is the Break-Even Analysis of BLDC Fan Manufacturing plant?

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- 23. What are the Profitability Ratios of BLDC Fan Manufacturing Project?**
- 24. What is the Sensitivity Analysis-Price/Volume of BLDC Fan Manufacturing plant?**
- 25. What are the Projected Pay-Back Period and IRR of BLDC Fan 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 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 BLDC Fan.” provides an insight into BLDC Fan market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of BLDC Fan project. The report assesses the market sizing and growth of the Indian BLDC Fan 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 BLDC Fan sector in India along with its business prospects. Through this report we have identified BLDC Fan project as a lucrative investment avenue.

Tags

#BLDCFan #BLDCFanManufacturing #BLDCFanProduction
#BLDCFanBusiness #CeilingFan #CeilingFanBusiness #BLDCFanMarket
#BrushlessDCMotor #BLDC #BLDCCeilingFans #EnergyEfficiency
#DetailedProjectReport #businessconsultant #NPCS #entrepreneurindia
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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.

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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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- *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

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

Sectors We Cover *Cont...*

- 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

Sectors We Cover *Cont...*

- 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.

Sectors We Cover *Cont...*

- 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.

Sectors We Cover *Cont...*

- 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...*

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

MARKET RESEARCH REPORTS

Objective

- ⌘ 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

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

Cont

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

Take a look at *NIIR PROJECT CONSULTANCY SERVICES* on
#Street View

<https://goo.gl/VstWkd>



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

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THANK YOU

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