



# **Lucrative Business of Dual Feed Distillery (Ethanol as Bio-Fuel)**

**Government Encouraging Ethanol Production.**

# Introduction

**The biofuel ethanol is classified as a first-generation biofuel. Starches, sugars, and vegetable oils are used to make this form of fuel. Commercially, it is made by breaking down corn and wheat. Plants that produce ethanol are referred to as bio refineries. This is because they use enzymes and live microorganisms to convert grain biomass into biofuel.**

**Ethanol fuel is ethyl alcohol, the same alcohol found in alcoholic beverages that is used as a source of energy. It is primarily utilized as a biofuel addition for gasoline and as a motor fuel. Biomass, such as corn or sugarcane, is widely used to produce ethanol. Bioethanol is a renewable energy source that may be made from agricultural waste.**



**Hemp, sugarcane, potato, cassava, and corn are all typical crops that can be used to make it. Bioethanol's use in replacing gasoline has been a source of heated dispute. Concerns surrounding its manufacture and use include rising food prices as a result of the vast quantity of arable land needed for crops, as well as the energy and pollution balance of the entire ethanol production cycle, particularly from maize.**

# Highlights

- 1. Only 25 of India's 360 distilleries are dual feed distilleries.**
- 2. Dual feed distilleries that produce ethanol from molasses and grain can provide ethanol throughout the year.**



**3. Ethanol distilleries based on maize and grains (millets and broken rice) may be established in various sections of the country.**

**4. Rainfed circumstances can be used to grow maize and millets. In comparison to sugarcane, these crops require far less watering.**



# **Government Approves Bio-Ethanol Procurement:**

**The Cabinet Committee on Economic Affairs has given its approval to the following pricing for bio-ethanol procurement by Oil Marketing Companies (OMCs) for the Ethanol Blended Petrol (EBP) Program:**

- 1. Ethanol procurement prices will henceforth be determined by OMCs and ethanol providers.**

**2. The mandatory ethanol blending with gasoline of 5%, as previously decided by the CCEA, should be implemented across the country, for which the Ministry of Petroleum & Natural Gas will issue a gazette notification for the OMCs to implement beginning with the 2012-13 sugar season, effective December 1, 2012.**

**3. In the event of a domestic supply shortage, OMCs and chemical firms are free to import ethanol.**

**It is envisaged that 5% bio-ethanol will be blended with gasoline sold in all of the country's states and territories. The EBP Program is now being implemented in 13 states, with a blending level of around 2% compared to a mandated aim of 5%.**



# Market Outlook

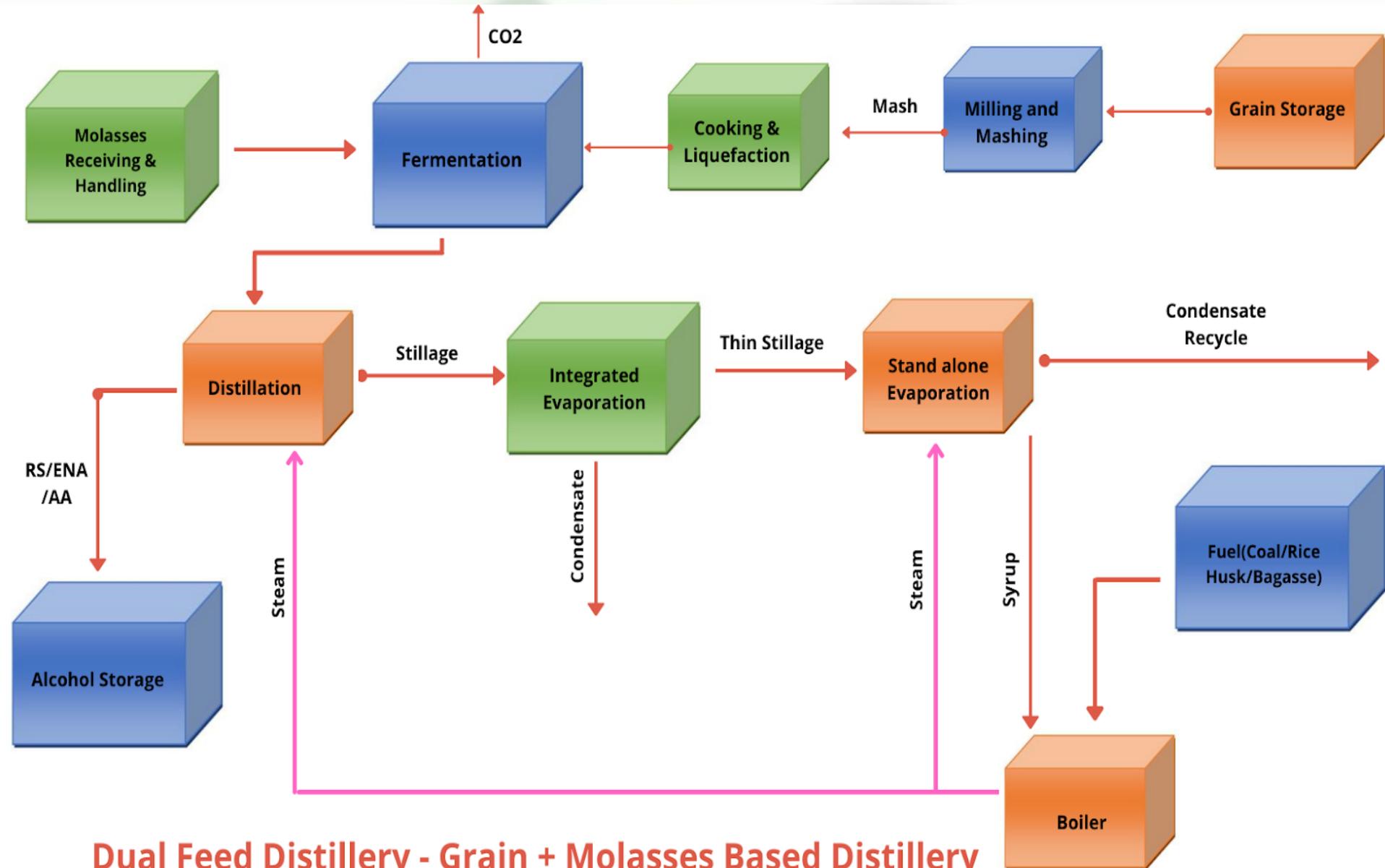
**In 2019, the worldwide ethanol market was estimated at USD 89.1 billion, with a compound annual growth rate (CAGR) of 4.8 percent expected from 2020 to 2027. The increased use of the product as a biofuel is driving demand for the product. Another key aspect driving market expansion is the increased usage of alcoholic beverages. Both natural and petrochemical feedstocks can be used to make ethanol.**

**Natural sugars are fermented in the presence of yeast in the natural process. Because of the surge in shale gas output, ethylene production is expanding. As oil output declines and additional ethylene capacity comes online, the market is projected to become overstocked with ethylene, resulting in ethanol production stagnation.**



**To combat the problem of increased air pollution caused by automobiles, ethanol is combined with gasoline up to quantities of 10% and 15%. Alcoholic beverages containing ethanol, which were once considered a luxury item, are now gradually becoming a need in the majority of households around the world. The entrance of premium products into the market is a major trend that is propelling growth.**

# Distillery Process



Dual Feed Distillery - Grain + Molasses Based Distillery

# Key Players

- 1.A K C Developers Ltd.**
- 2.Bharat Renewable Energy Ltd.**
- 3.Costal Energy Ltd.**
- 4.First Energy Pvt. Ltd.**
- 5.K B K Chem-Engineering Pvt. Ltd.**
- 6.P S A Nitrogen**
- 7.Uttranchal Biodiesel Ltd.**
- 8.Xtraa Cleancities Ltd.**
- 9.Yantra Fintech (India) Ltd.**

# Machinery Photographs



## Propagation System



## **STORAGE TANK**



# **FILTER**

The background of the slide is a close-up photograph of a green plastic water pump nozzle. The nozzle is angled downwards and to the right, with a stream of clear water being sprayed from its tip. The water droplets are captured in mid-air, creating a misty effect. The background is a soft-focus field of green grass.

# Project at a Glance

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	60.00	60.00	Capital	0.00	1194.46	1194.46
Buildings	0.00	184.50	184.50	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	3723.00	3723.00	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	270.50	270.50	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	50.00	50.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	3583.37	3583.37
Preliminary& Pre-operative Exp	0.00	10.00	10.00	Debentures / Bonds Unsecured	0.00	0.00	0.00
Provision for Contingencies	0.00	360.00	360.00	Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	99.82	99.82				
<b>TOTAL</b>	<b>0.00</b>	<b>4777.82</b>	<b>4777.82</b>	<b>TOTAL</b>	<b>0.00</b>	<b>4777.82</b>	<b>4777.82</b>

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	4.53	10.12	14.53	24.00	0.00	100.00	4.53	0.00	4.53	1.00	0.00
2-3	6.73	11.50	21.26	18.00	0.00	100.00	6.73	0.00	6.73	1.00	0.00
3-4	8.97	13.05	30.23	12.00	0.00	100.00	8.97	0.00	8.97	1.00	0.00
4-5	11.22	14.70	41.45	6.00	0.00	100.00	11.22	0.00	11.22	1.00	0.00
5-6	13.44	16.43	54.89	0.00	0.00	100.00	13.44	0.00	13.44	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
	Indiv idual	Cumulative	Overall					GPM	PBT	PAT	Net Contrib ution	P/V Ratio		
	(Number of times)			(Number of times)		%	%	%	%	%	%			
Initial				3.00	3.00									
1-2	1.47	1.47		1.65	1.65	1.85		24.05%	14.46%	12.64%	2731.42	63.76 %	0.87	0.88
2-3	1.67	1.57		0.85	0.85	1.00		29.58%	22.58%	16.08%	3181.84	63.66 %	0.99	1.48
3-4	1.93	1.68	1.95	0.40	0.40	0.52		33.35%	28.32%	18.76%	3636.28	63.66 %	1.05	2.18
4-5	2.25	1.81		0.14	0.14	0.24		35.99%	32.48%	20.85%	4090.71	63.66 %	1.05	2.99
5-6	2.64	1.95		0.00	0.00	0.08		37.83%	35.53%	22.49%	4545.14	63.66 %	1.01	8.98

**BEP****BEP - Maximum Utilisation Year****5****Cash BEP (% of Installed Capacity)****36.33%****Total BEP (% of Installed Capacity)****44.17%****IRR, PAYBACK and FACR****Internal Rate of Return .. ( In %age )****23.56%****Payback Period of the Project is ( In Years )****2 Years 3 Months****Fixed Assets Coverage Ratio ( No. of times )****3.062**

# Major Queries/Questions Answered in the Report?

- 1. What is Dual Feed Distillery (Ethanol as Bio-Fuel) Manufacturing industry ?**
- 2. How has the Dual Feed Distillery (Ethanol as Bio-Fuel) Manufacturing industry performed so far and how will it perform in the coming years ?**
- 3. What is the Project Feasibility of Dual Feed Distillery (Ethanol as Bio-Fuel) Manufacturing Plant ?**
- 4. What are the requirements of Working Capital for setting up Dual Feed Distillery (Ethanol as Bio-Fuel) Manufacturing plant ?**

- 5. What is the structure of the Dual Feed Distillery (Ethanol as Bio-Fuel) Manufacturing Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Dual Feed Distillery (Ethanol as Bio-Fuel) Manufacturing Business?**
- 7. What are the operating costs for setting up Dual Feed Distillery (Ethanol as Bio-Fuel) Manufacturing plant ?**
- 8. What are the machinery and equipment requirements for setting up Dual Feed Distillery (Ethanol as Bio-Fuel) Manufacturing plant ?**

**9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Dual Feed Distillery (Ethanol as Bio-Fuel) Manufacturing plant ?**

**10. What are the requirements of raw material for setting up Dual Feed Distillery (Ethanol as Bio-Fuel) Manufacturing plant ?**

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- ✓ **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 Dual Feed Distillery (Ethanol as Bio-Fuel).” provides an insight into Dual Feed Distillery (Ethanol as Bio-Fuel) market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Dual Feed Distillery (Ethanol as Bio-Fuel) project. The report assesses the market sizing and growth of the Indian Dual Feed Distillery (Ethanol as Bio-Fuel) 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 Dual Feed Distillery (Ethanol as Bio-Fuel) sector in India along with its business prospects. Through this report we have identified Dual Feed Distillery (Ethanol as Bio-Fuel) project as a lucrative investment avenue.

# Tags

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**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.**

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# ***Niir PROJECT CONSULTANCY SERVICES***

**AN ISO 9001 : 2015 CERTIFIED COMPANY**



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***Niir PROJECT CONSULTANCY SERVICES***



# Entrepreneur **India**

# 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)**

# 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**

- ❖ **Bamboo And Cane Based Projects**
- ❖ **Building Materials And Construction Projects**
- ❖ **Biodegradable & Bioplastic Based Projects**
- ❖ **Chemicals (Organic And Inorganic)**
- ❖ **Confectionery, Bakery/Baking And Other Food**
- ❖ **Cereal Processing**
- ❖ **Coconut And Coconut Based Products**
- ❖ **Cold Storage For Fruits & Vegetables**
- ❖ **Coal & Coal Byproduct**

- ❖ **Copper & Copper Based Projects**
- ❖ **Dairy/Milk Processing**
- ❖ **Disinfectants, Pesticides, Insecticides, Mosquito Repellents,**
- ❖ **Electrical, Electronic And Computer based Projects**
- ❖ **Essential Oils, Oils & Fats And Allied**
- ❖ **Engineering Goods**
- ❖ **Fibre Glass & Float Glass**
- ❖ **Fast Moving Consumer Goods**
- ❖ **Food, Bakery, Agro Processing**

- ❖ **Fruits & Vegetables Processing**
- ❖ **Ferro Alloys Based Projects**
- ❖ **Fertilizers & Biofertilizers**
- ❖ **Ginger & Ginger Based Projects**
- ❖ **Herbs And Medicinal Cultivation And Jatropha (Biofuel)**
- ❖ **Hotel & Hospitality Projects**
- ❖ **Hospital Based Projects**
- ❖ **Herbal Based Projects**
- ❖ **Inks, Stationery And Export Industries**

- ❖ **Infrastructure Projects**
- ❖ **Jute & Jute Based Products**
- ❖ **Leather And Leather Based Projects**
- ❖ **Leisure & Entertainment Based Projects**
- ❖ **Livestock Farming Of Birds & Animals**
- ❖ **Minerals And Minerals**
- ❖ **Maize Processing(Wet Milling) & Maize Based Projects**
- ❖ **Medical Plastics, Disposables Plastic Syringe, Blood Bags**
- ❖ **Organic Farming, Neem Products Etc.**

- ❖ **Paints, Pigments, Varnish & Lacquer**
- ❖ **Paper And Paper Board, Paper Recycling Projects**
- ❖ **Printing Inks**
- ❖ **Packaging Based Projects**
- ❖ **Perfumes, Cosmetics And Flavours**
- ❖ **Power Generation Based Projects & Renewable Energy Based Projects**
- ❖ **Pharmaceuticals And Drugs**
- ❖ **Plantations, Farming And Cultivations**
- ❖ **Plastic Film, Plastic Waste And Plastic Compounds**
- ❖ **Plastic, PVC, PET, HDPE, LDPE Etc.**

- ❖ **Potato And Potato Based Projects**
- ❖ **Printing And Packaging**
- ❖ **Real Estate, Leisure And Hospitality**
- ❖ **Rubber And Rubber Products**
- ❖ **Soaps And Detergents**
- ❖ **Stationary Products**
- ❖ **Spices And Snacks Food**
- ❖ **Steel & Steel Products**
- ❖ **Textile Auxiliary And Chemicals**

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

# Market Research Report

A graphic with a blue grid background. In the center, the words 'Market Research Report' are written in large, bold, blue letters with a yellow outline. Below the text, several silhouettes of business people in suits are standing on a large, colorful, upward-curving arrow that points towards the top right. The arrow is red and yellow. The background also features a faint, larger version of the text 'Market Research Report'.

# Objective

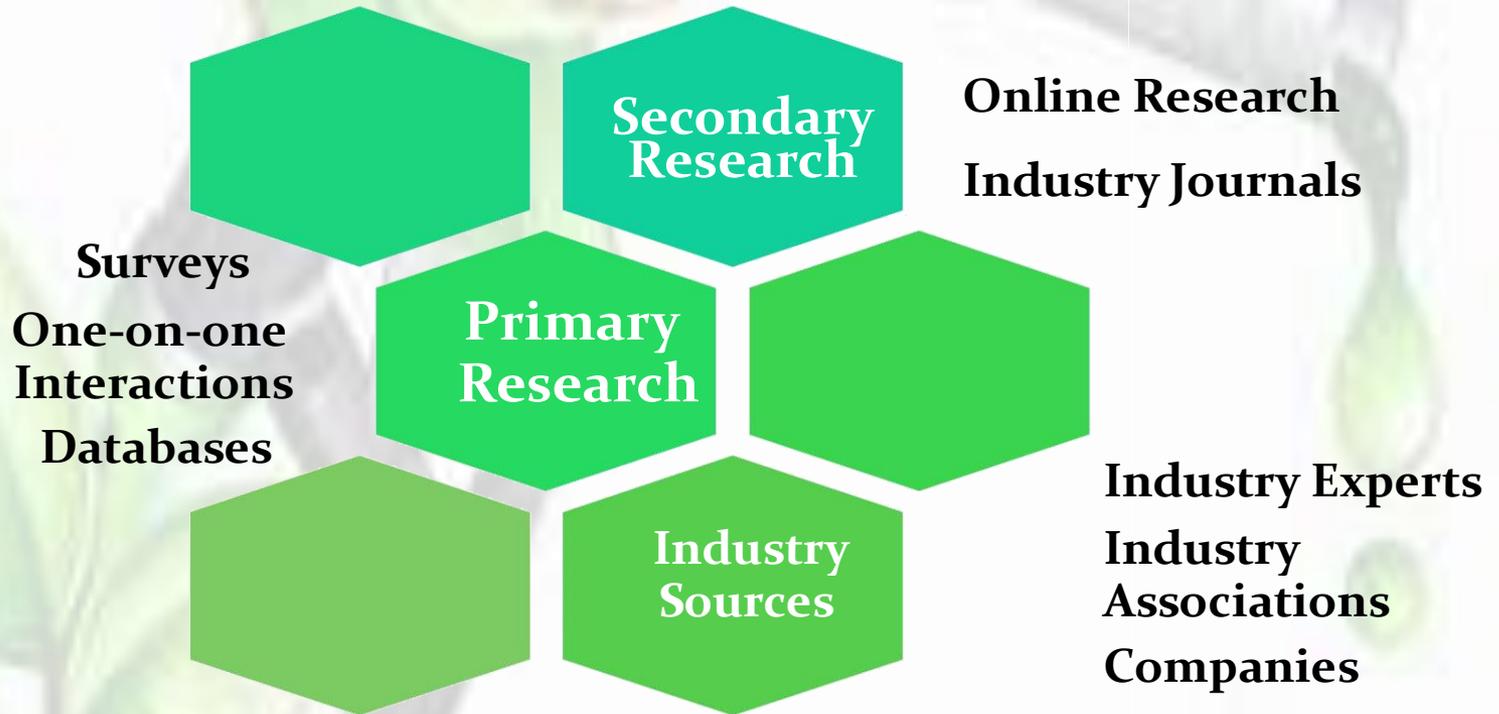
- To provide forecasts of key parameters which helps to anticipate the industry performance
- To help chart growth trajectory of a business by detailing the factors that affect the industry growth
- To help an entrepreneur/manager in keeping abreast with the changes in the industry
- To evaluate the 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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A close-up photograph of a hand holding a black pen, writing the words "Thank you!" in a cursive, blue ink on a white surface. The pen is positioned at the end of the word "you!".

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

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

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