

# **Biodegradable Plastic Pellets**

## **Manufacturing Industry.**

### **Bioplastics Production Business**



# Introduction

**Biodegradable plastics are plastics that can be decomposed by the action of living organisms, usually microbes, into water, carbon dioxide, and biomass. Biodegradable plastics are commonly produced with renewable raw materials, micro-organisms, petrochemicals, or combinations of all three. But it turns out that the promise of biodegradable plastic may be too good to be true. In theory, biodegradable plastics degrade faster than regular plastics because they contain additives that attract microbes to decompose them.**



**Bio plastics are plastic materials produced from renewable biomass sources, such as vegetable fats and oils, corn starch, straw, woodchips, sawdust, recycled food waste, etc. Biodegradable plastics are those that can be degraded by microbial action to produce natural end products, like water and carbon dioxide,**

**in a reasonable period of time. The time needed to decompose completely depends on the material, environmental conditions such as temperature and moisture, There are two kinds of biobased polysters: polylactide acid (PLA) and polyhydroxyalkanoate (PHA).**



## **Uses:**

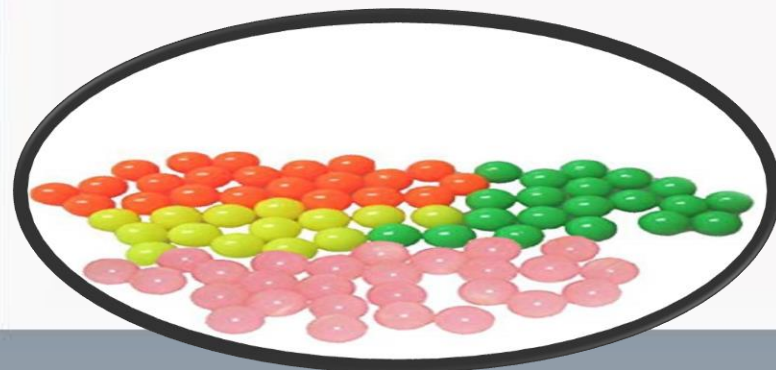
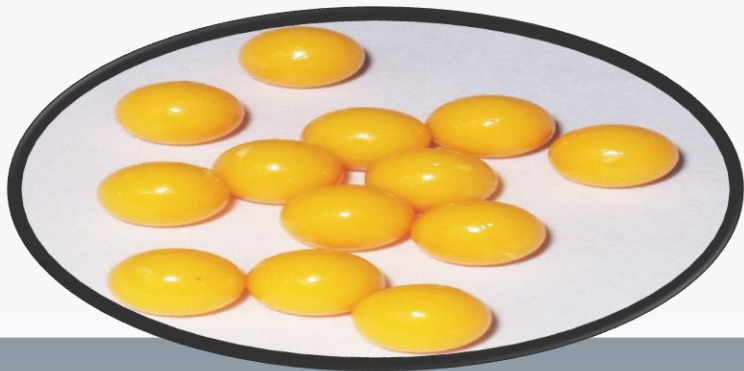
- ❖ **Biodegradable plastics offer reduces carbon dioxide levels.**
- ❖ **Biodegradable plastics are broken down by naturally-occurring bacteria. Biodegradable plastics can reduce greenhouse gas emission levels.**
- ❖ **Biodegradable plastics do not release other dangerous items upon decomposition.**
- ❖ **Biodegradable plastics consume less energy during the manufacturing cycle.**
- ❖ **Biodegradable plastics reduce the amount of waste we produce.**
- ❖ **Biodegradable plastics would direct petroleum consumption to other needs.**

- ❖ **Biodegradable plastics can mix with traditional products.**
- ❖ **Biodegradable plastics require less energy during the manufacturing cycle.**
- ❖ **Biodegradable plastics could create new export industries.**
- ❖ **Biodegradable plastics create a new marketing platform.**
- ❖ **Biodegradable plastics can decompose quickly in specific situations.**



## **Market Outlook**

**The global bio plastics for packaging market valuation of more than \$4 billion in 2017 and is expected to reach a value of \$15.6bn by the end of 2027 while experiencing a robust CAGR of 14.4% during the period 2017-2027. Gains will be driven by escalating costs for petroleum-based resins and growing initiatives that favor renewable resources. Polyester-based and polylactic acid resins will grow the fastest, while starch-based types remain the largest segment.**



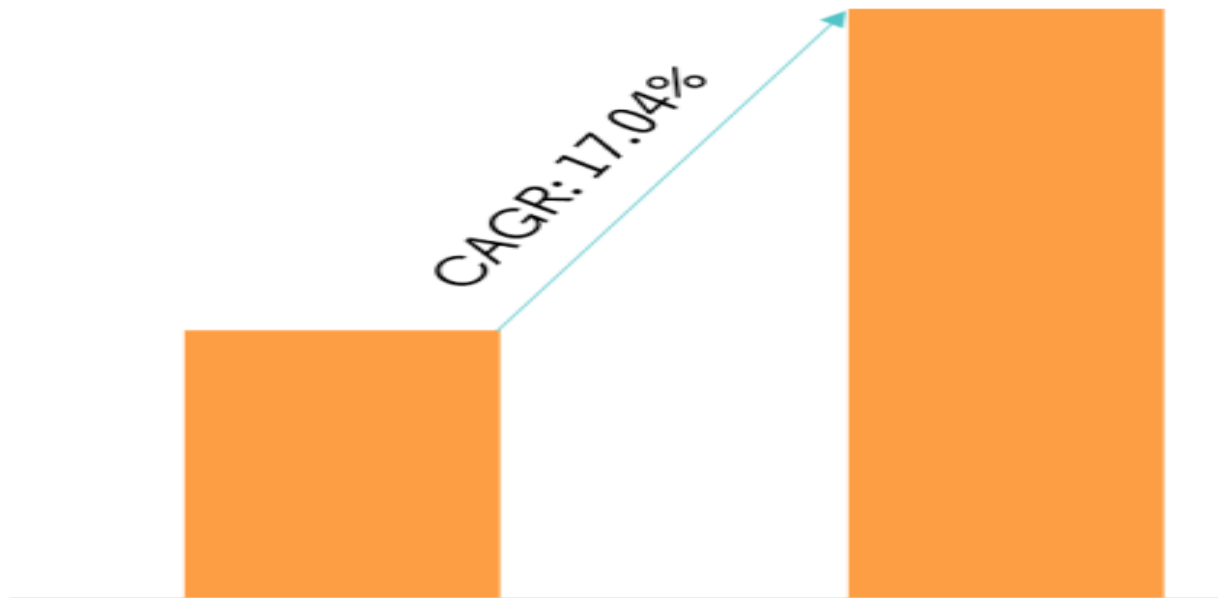
## **Drivers for the Bio plastics Market Growth in India**

**A number of key drivers are accelerating the growth of the bioplastics market globally. Many of these are relevant in the Indian context too.**

- Mandates & regulations**
- Increasing eco-awareness among consumers**
- Corporates becoming more focused on sustainability**
- Technology stabilization**
- Cost reduction**

## Biodegradable Plastic Packaging Market

### Biodegradable Plastic Packaging Market



**The transition to a low-carbon and circular economy, stronger policy support for the bioeconomy, and increased consumer awareness for sustainable products and packaging are driving the expansion of the market. expected to create huge growth opportunities for the manufacturers of biodegradable plastics in the next five years. The demand for biodegradable plastics is witnessing a significant rise from conventional end-user industries, such as packaging, agriculture, and textile. The use of biodegradable plastics, especially in the European countries, is also increasing in other niche segments, such as medical implants and drug delivery systems, etc. these factors are driving the overall market's growth. North America is expected to lead the market with the highest market value and the fastest market growth of 14.6% during the forecast period However,**

**Asia Pacific Excluding Japan (AJEP) is also progressing and is expected to project a high CAGR during the period of assessment.**

**With increasing concerns over the use of plastics, sustainable alternatives to plastics are increasingly in demand. Biopolymers in general and bioplastics in particular, present one such sustainable alternative. In this context, bioplastics have attained prominence as they are one of the few scalable and commercially feasible alternatives to a wide range of plastics. Products and solutions based on bioplastics/biopolymers present interesting opportunities globally. Opportunities are present across a variety of industrial sectors that include packaging, water, beverages, insulation materials, specialty materials and more. The key factor driving the bioplastics market is the need for more eco-friendly and less polluting materials.**

**Other drivers include volatile fossil fuel prices and the need for companies to decrease their carbon footprint across their entire business value chain. The demand for bioplastics has been gradually increasing due to its renewability and availability of raw material, advanced functionality and technical properties, and the recycling options at least some of them present.**



## **Key players**

**Tetra Pak International SA, Plastic Suppliers Inc., Kruger Inc. NatureWorks (US), Braskem (Brazil), Novamont (Italy), BASF (Germany), Total Corbion PLA (Netherlands), Biome Bioplastics (UK), Bio-On (Italy), Toray Industries (Japan), Plantic Technologies (Australia), and Mitsubishi Chemical Corporation (Japan).**

# Machinery Photographs



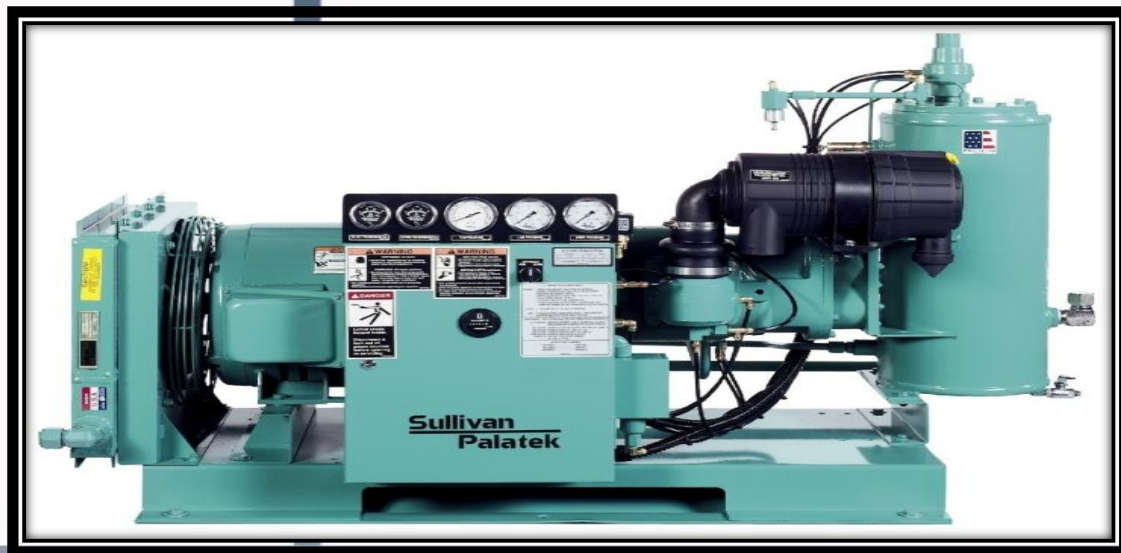
**Twin Screw Extruder Pelletizing Line**



**500 L High Speed Mixer - 1000L Low Speed Mixer**



**Conveyor Belt Pelletizer**



**Air Compressor**

# Project at a Glance

| COST OF PROJECT                |          |          |        | MEANS OF FINANCE            |          |          |        |
|--------------------------------|----------|----------|--------|-----------------------------|----------|----------|--------|
| Particulars                    | Existing | Proposed | Total  | Particulars                 | Existing | Proposed | Total  |
| Land & Site Development Exp.   | 0.00     | 75.00    | 75.00  | Capital                     | 0.00     | 101.81   | 101.81 |
| Buildings                      | 0.00     | 112.50   | 112.50 | Share Premium               | 0.00     | 0.00     | 0.00   |
| Plant & Machineries            | 0.00     | 128.00   | 128.00 | Other Type Share Capital    | 0.00     | 0.00     | 0.00   |
| Motor Vehicles                 | 0.00     | 5.00     | 5.00   | Reserves & Surplus          | 0.00     | 0.00     | 0.00   |
| Office Automation Equipments   | 0.00     | 23.00    | 23.00  | Cash Subsidy                | 0.00     | 0.00     | 0.00   |
| Technical Knowhow Fees & Exp.  | 0.00     | 10.00    | 10.00  | Internal Cash Accruals      | 0.00     | 0.00     | 0.00   |
| Franchise & Other Deposits     | 0.00     | 0.00     | 0.00   | Long/Medium Term Borrowings | 0.00     | 305.43   | 305.43 |
| Preliminary& Pre-operative Exp | 0.00     | 3.00     | 3.00   | Debentures / Bonds          | 0.00     | 0.00     | 0.00   |
| Provision for Contingencies    | 0.00     | 12.00    | 12.00  | Unsecured Loans/Deposits    | 0.00     | 0.00     | 0.00   |
| Margin Money - Working Capital | 0.00     | 38.74    | 38.74  |                             |          |          |        |
| TOTAL                          | 0.00     | 407.24   | 407.24 | TOTAL                       | 0.00     | 407.24   | 407.24 |

# 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 |                        |
|      | `          | `     | `          | `     | `         | %                 | `     | %      | `                     | s           | %                      |
| 1-2  | 6.31       | 9.85  | 16.31      | 24.00 | 0.00      | 100.00            | 6.31  | 0.00   | 6.31                  | 1.00        | 0.00                   |
| 2-3  | 9.12       | 12.21 | 25.43      | 18.00 | 0.00      | 100.00            | 9.12  | 0.00   | 9.12                  | 1.00        | 0.00                   |
| 3-4  | 11.90      | 14.60 | 37.33      | 12.00 | 0.00      | 100.00            | 11.90 | 0.00   | 11.90                 | 1.00        | 0.00                   |
| 4-5  | 14.61      | 16.97 | 51.94      | 6.00  | 0.00      | 100.00            | 14.61 | 0.00   | 14.61                 | 1.00        | 0.00                   |
| 5-6  | 17.21      | 19.29 | 69.15      | 0.00  | 0.00      | 100.00            | 17.21 | 0.00   | 17.21                 | 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     | 1.41              | 1.41       |         | 1.47                          | 1.47              | 2.48            |                     | 13.23%              | 7.93%  | 5.45% | 366.07           | 31.05%    | 2.07                  | 1.07          |
| 2-3     | 1.72              | 1.56       |         | 0.71                          | 0.71              | 1.45            |                     | 14.64%              | 10.32% | 6.75% | 387.35           | 28.16%    | 2.19                  | 1.32          |
| 3-4     | 2.09              | 1.72       | 2.09    | 0.32                          | 0.32              | 0.90            |                     | 15.58%              | 12.02% | 7.71% | 441.74           | 28.10%    | 2.20                  | 1.60          |
| 4-5     | 2.53              | 1.90       |         | 0.12                          | 0.12              | 0.58            |                     | 16.20%              | 13.23% | 8.41% | 496.13           | 28.05%    | 2.13                  | 1.91          |
| 5-6     | 3.06              | 2.09       |         | 0.00                          | 0.00              | 0.39            |                     | 16.61%              | 14.10% | 8.92% | 550.52           | 28.02%    | 2.02                  | 2.74          |

# Project at a Glance

## BEP

|                                               |                  |
|-----------------------------------------------|------------------|
| BEP - Maximum Utilisation Year                | 5                |
| Cash BEP (% of Installed Capacity)            | 44.64%           |
| Total BEP (% of Installed Capacity)           | 48.48%           |
| IRR, PAYBACK and FACR                         |                  |
| Internal Rate of Return .. ( In %age )        | 28.94%           |
| Payback Period of the Project is ( In Years ) | 2 Years 3 Months |
| Fixed Assets Coverage Ratio ( No. of times )  | 8.423            |

# **Major Queries/Questions Answered in the Report?**

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

**5. What is the structure of the Biodegradable plastic pellets Manufacturing Business and who are the key/major players ?**

**6. What is the total project cost for setting up Biodegradable plastic pellets Manufacturing Business?**

**7. What are the operating costs for setting up Biodegradable plastic pellets Manufacturing plant ?**

**8. What are the machinery and equipment requirements for setting up Biodegradable plastic pellets Manufacturing plant ?**

- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Biodegradable plastic pellets Manufacturing plant ?**
- 10. What are the requirements of raw material for setting up Biodegradable plastic pellets Manufacturing plant ?**
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up Biodegradable plastic pellets Manufacturing Business?**
- 12. What is the Manufacturing Process of Biodegradable plastic pellets ?**

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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 Biodegradable plastic pellets .” provides an insight into Biodegradable plastic pellets market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Biodegradable plastic pellets project. The report assesses the market sizing and growth of the Indian Biodegradable plastic pellets 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 Biodegradable plastic pellets sector in India along with its business prospects. Through this report we have identified Biodegradable plastic pellets project as a lucrative investment avenue.**

# Tags

#Biodegradable\_plastic\_pellets\_Plant,  
#Biodegradable\_plastic\_pellets\_Process, #Biodegradable\_plastic\_pellets,  
Plastic Wastes, #Waste\_Plastic\_Biodegradable\_plastic\_pellets,  
#Biodegradable\_plastic\_pellets\_Pdf, #plastic\_pellets\_Plant\_in\_India,  
#Waste\_plastic\_pellets\_Plant, Polyhydroxyalkanoates (PHAs) Plant Cost,  
Biodegradable plastic pellets Process, Biodegradable plastic pellets Plant  
Project Report Pdf, Waste Polylactic acid (PLA) Plant, Converting Polylactic  
acid (PLA) Plant, Production of Polylactic acid (PLA), Waste Polylactic acid  
(PLA) Conversion Technology, Waste Plastic to Polylactic acid (PLA)Plant,  
Polylactic acid (PLA) Waste, Recycling Plastic in India, Recycling Process  
turns Waste Polylactic acid (PLA), Making Polylactic acid (PLA), Projects on  
Small Scale Industries, Small scale industries projects ideas, Plastic  
Pyrolysis Plant Based Small Scale Industries Projects, Project profile on  
small scale industries, New project profile on Plastic Polylactic acid (PLA)  
Plant, Project Report on Plastic Polylactic acid (PLA) Plant, Detailed Project  
Report on Polylactic acid (PLA)Plant, Project Report on Bio-based plastics  
Plant, Pre-Investment Feasibility Study on Bio-based plastics Plant, Techno-  
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## **▪ 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.**



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

# **Contact us**

## **NIIR PROJECT CONSULTANCY SERVICES**

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# **Niir PROJECT CONSULTANCY SERVICES**

**An ISO 9001:2015 Company**



# 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

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# THANK YOU

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