Biodegradable and Compostable Disposable Cups and Plates from Sugarcane Bagasse and Wheat Straw.

Production of single-use Disposable Foodservice Products.
Introduction

Bagasse is remoulded to a kind of paper that is used to make plates, cups and glasses. Recyclability, lightweight, and other physical attributes of disposable cups will continue to make them the foremost choice of packaging food products. Disposable cups are designed to hold both, hot and cold, substances, which further propels their applicability in global food & beverage industry. However, a majority of disposable cups are made from plastic materials to reduce chances of food contamination. This raises concerns regarding impact of such plastic cups on the environment, whether in terms of rising production or from dumping waste plastic disposable cups.
The uses of biodegradable plates and Cups are many. They are:

- Cheap
- Easy to use
- Easy to dispose
- Hygienic
- Easily available
Disposable cups made from bioplastics or other such materials is predicted to garner surplus demand in the years to come. Such favourable consumer preferences, coupled with rising consumption of fast in the world, will also continue consolidating the growth of global disposable cups market. Global market for disposable cups projects that by the end of 2026, more than US$ 21.2 Bn worth of disposable cups will be sold globally.

Growth will be driven by the increased options and convenience of meals prepared or consumed away from home. Demand will also be supported by a shift toward the use of higher value products featuring durable plastic or compostable materials.
More than ever, consumers are demanding flexibility in their meal options. Generally, they are looking for speed and convenience. The availability of online ordering and delivery services allows the enjoyment of eating out while still tending to their busy lives. As this trend continues to rise, the establishments that serve them must be prepared to package a meal for takeout or delivery while ensuring the best eating experience for their guests. This includes containers, wraps and bags, among others. The single-use items utilized must prevent spills, provide convenience, and best represent the image that the foodservice establishment is trying to achieve.
The global sales of disposable cups is expected to surge steadily at 5.1% CAGR, procuring revenues from sales of over 850 Bn units towards the end of 2026.

Today, the market is growing a conscience. With plastic bans in various cities and an increase in awareness of the dangers of plastic, people are more accepting of biodegradable materials.
Sugarcane is a very fast renewable resource for which no trees have to be cut down. As a by-product of the sugar production, bagasse does not require additional cultivation areas and has no impact on the area of forests. On the contrary: It is actually a sustainable and eco-friendly alternative to conventional paper production because the bagasse paper production wastes much less energy than the wood paper production.
Characteristics of bagasse products:

- Very stable, sturdy and not very flexible
- Good thermal property: suitable for temperatures from -25°C to 220°C;
- Water repellent and grease-proof: also suitable for hot and very oily/greasy dishes
- Completely biodegradable & compostable
**Manufacturing Process**

Bagasse is the newly developed material for the production of tableware. Compared with other raw material, bagasse Cups and Plates has better appearance and longer life span, compared with polyester, bagasse is more environmental friendly, which can be recycled or absorbed easily. Bagasse pulp, which can be obtained from paper making plants, is used as raw material, after pulping, molding & drying section, the tableware will go through sterilization and edge trimming section before packaging.
There are 5 manufacturing stages:

1. Steam boiler
2. Air compressor
3. Sugarcane pulp → Hydraulic pulping → Pulp mixing → Forming machine
4. Final product ← UV sterilization ← Edge cutting ← Shaping machine
1) **Pulping:** Soaping the pulp paper board and put into hydraulic pulper. After pulping, pulp will go into mixture tank and add water and oil additive, then goes to pulp supply tub for forming machine, vacuum dewatering and forming.

2) **Forming:** Forming is the key process in production line. The process is quantitative pulp supply, back flushing power supply, vacuum dewatering and forming. With advance technology to eliminate holes, uneven thickness during production, so as to reduce defective goods. The semi-finished product will be moved into drying mould for solidity.
3) Shaping and drying: At this process, steam is used for heat drying. Compare to electrical heating, 70% energy will be saved, meeting hygiene requirements of food packaging, enhance resource utilization. Qualified production rate is up to 99%.

4) Edge cutting and sterilization: The product taken out from the shaper will be moved into edge cutting machine, where the extra edge will be trimmed. UV sterilization is applied to make sure production meeting with hygiene requirement.

5) Packaging: Final production is packed and stored.
Biodegradable Process

1. Sugarcane
2. Sugar Mills
3. Bagasse Pulp Sheets
4. Biodegradable Plate
5. Compost in Landfill
6. Biodegradation \( \text{CO}_2 + \text{H}_2\text{O} \)

From Nature to Nature
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## Project at a Glance

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# Project at a Glance

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*GPM: Gross Profit Margin, PBT: Profit Before Tax, PAT: Profit After Tax, Net Contribution, P/V Ratio: Price to Earning Ratio*
## Project at a Glance

**BEP**

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<td>Total BEP (% of Installed Capacity)</td>
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<td>IRR, PAYBACK and FACR</td>
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### Payback Period of the Project

- **Internal Rate of Return (In %age)**: 28.18%
- **Payback Period of the Project** (In Years): 2 Years 3 Months

### Fixed Assets Coverage Ratio

- **Fixed Assets Coverage Ratio (No. of times)**: 15.675
Major Queries/Questions Answered in the Report?

1. What is Biodegradable Disposable Cups and Plates Manufacturing industry?

2. How has the Biodegradable Disposable Cups and Plates Manufacturing industry performed so far and how will it perform in the coming years?

3. What is the Project Feasibility of Biodegradable Disposable Cups and Plates Manufacturing Plant?

4. What are the requirements of Working Capital for setting up Biodegradable Disposable Cups and Plates Manufacturing plant?
5. What is the structure of the Biodegradable Disposable Cups and Plates Manufacturing Business and who are the key/major players?

6. What is the total project cost for setting up Biodegradable Disposable Cups and Plates Manufacturing Business?

7. What are the operating costs for setting up Biodegradable Disposable Cups and Plates Manufacturing plant?

8. What are the machinery and equipment requirements for setting up Biodegradable Disposable Cups and Plates Manufacturing plant?
9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Biodegradable Disposable Cups and Plates Manufacturing plant?

10. What are the requirements of raw material for setting up Biodegradable Disposable Cups and Plates Manufacturing plant?

11. Who are the Suppliers and Manufacturers of Raw materials for setting up Biodegradable Disposable Cups and Plates Manufacturing Business?

12. What is the Manufacturing Process of Biodegradable Disposable Cups and Plates?
13. What is the total size of land required for setting up Biodegradable Disposable Cups and Plates Manufacturing plant?

14. What will be the income and expenditures for Biodegradable Disposable Cups and Plates Manufacturing Business?

15. What are the Projected Balance Sheets of Biodegradable Disposable Cups and Plates Manufacturing plant?

16. What are the requirement of utilities and overheads for setting up Biodegradable Disposable Cups and Plates Manufacturing plant?

17. What is the Built up Area Requirement and cost for setting up Biodegradable Disposable Cups and Plates Manufacturing Business?
18. What are the Personnel (Manpower) Requirements for setting up Biodegradable Disposable Cups and Plates Manufacturing Business?

19. What are Statistics of Import & Export for Biodegradable Disposable Cups and Plates?

20. What is the time required to break-even of Biodegradable Disposable Cups and Plates Manufacturing Business?

21. What is the Break-Even Analysis of Biodegradable Disposable Cups and Plates Manufacturing plant?

22. What are the Project financials of Biodegradable Disposable Cups and Plates Manufacturing Business?
23. What are the Profitability Ratios of Biodegradable Disposable Cups and Plates Manufacturing Project?

24. What is the Sensitivity Analysis-Price/Volume of Biodegradable Disposable Cups and Plates Manufacturing plant?

25. What are the Projected Pay-Back Period and IRR of Biodegradable Disposable Cups and Plates Manufacturing plant?

26. What is the Process Flow Sheet Diagram of Biodegradable Disposable Cups and Plates Manufacturing project?
27. What are the Market Opportunities for setting up Biodegradable Disposable Cups and Plates 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 its characteristics and segmentation.
- This report helps you market and place the product correctly by identifying the target customer group of the product.

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• 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

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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.
The report titled “Market Survey cum Detailed Techno Economic Feasibility Report on Biodegradable Disposable Cups and Plates using Sugarcane Bagasse and Wheat Straw.” provides an insight into Biodegradable Disposable Cups and Plates market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Biodegradable Disposable Cups and Plates project. The report assesses the market sizing and growth of the Indian Biodegradable Disposable Cups and Plates 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:

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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 Disposable Cups and Plates sector in India along with its business prospects. Through this report we have identified Biodegradable Disposable Cups and Plates project as a lucrative investment avenue.
Niir Project Consultancy Services (NPCS) can provide Detailed Project Report on Biodegradable and Compostable Disposable Cups and Plates from Sugarcane Bagasse and Wheat Straw.

Production of single-use Disposable Foodservice Products.

See more

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https://goo.gl/Sb9ghy
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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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Our Approach

- Requirement collection
- Thorough analysis of the project
- Economic feasibility study of the Project
- Market potential survey/research
- Report Compilation
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