

Eco-Friendly Packaging Solutions for Small Businesses

Visit and Problem Identification

Group Visit

Our team also made a stop at one of the local markets characterized by small shops, food joints and other small vendors. We noticed that the most common packaging item especially for takeaways that most of these vendors use is plastic. This becomes a problem since plastic in most cases is non-biodegradable and hence leads to environmental pollution.

Problem Identification

Problems identified:

- Availability: Eco-friendly substitutes are few, lacking, or overly expensive.
- Affordability: Alternatives to plastics that are more environmentally friendly that are paper or plant-based materials are very costly compared to plastic.

- Comfort: Plastics are light, waterproof, and easy to pack and move with when traveling. Green alternatives do not carry these benefits most of the time.
- Health: Plastic waste is a risk to the environment and human health as it promotes pollution.

Analysis and Selection

Problem Analysis

The main problem in the recent past has been the over reliance on plastic as an item for packaging other goods. It results in litter, environmental pollution and poor drainage as people are faced with problems such as floods. While the market would have green options vendors would want to but the cost and convenience are baffling.

Problem Selection

We scanned the landscape and synthesized our learning around two root challenges:

- Affordable green packaging - The small-scale manufacturers are looking for cheap solution to this problem.
- Usability and availability - The retail aspect requires a pack which serves the same role as plastic does.

Our conclusion lays the premise on the fact that cost and convenience are the main deterrents for a majority of small vendors who still use plastics for packing their wares. We offer a way that is reasonable and yet takes into consideration the factors of cost. Moving forward, those factors are used as a minimal revolution of adopting the solution to the society.

Solution Design

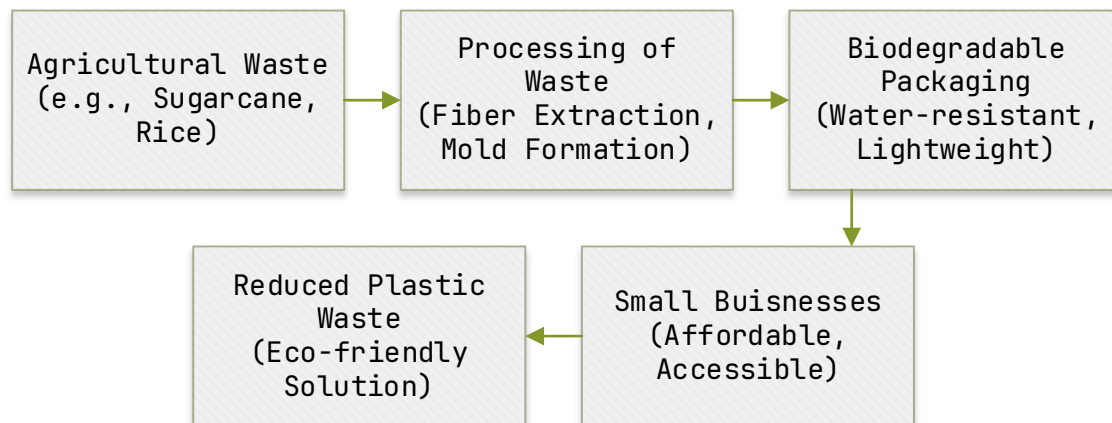
The Solution

The suggested method is simple, cheap and environmentally friendly packaging made out of residues of agriculture waste such as bagasse from sugarcane, rice husks or straw of wheat. Packing would be both light as well as resistant to water. Main characteristics include:

- Nontoxic and porous - For the packaging to be done, there will be no chemicals introduced which are harmful.
- Cost-effective - Adoption of this method will cut down the production costs as they will use available local materials.
- Practical- The pack will be lightweight, water proof and easy to store like plastic.

Concept Sketch

Here's a flowchart to illustrate the production process and functionality of the packaging solution:



Report Presentation

Overall Report Presentation

The hydration is able to commence with the evolving background on why environmental concerns require and appropriate solution to the issue of the eco-friendly packaging, an appropriate methodology that includes the type of field visit carried out, an analysis of the outcomes of the visit, and the last section detailing the suitable remedy to the problem.

Writing Quality

The report depicts the well-composed and organized discourse which free of grammatical blunders and spelling mistakes. It is evident that proper citation is done where it is due in an endeavor to make the report professional