



اُنْدِيْفُو تِكْنُوْلُوْجِيْ مَارَا
UNIVERSITI
TEKNOLOGI
MARA



COMPANY ANALYSIS

DRN MANUFACTURING SDN BHD

TECHNOLOGY ENTREPRENEURSHIP (ENT600) : CASE STUDY

FACULTY : FACULTY OF APPLIED SCIENCE

SEMESTER : 05

PROJECT TITLE : CONVERTING FOOD WASTE INTO BIODEGRADABLE
PLASTIC

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EXECUTIVE SUMMARY

DRN Manufacturing Sdn Bhd is one of the new companies that use biodegradable material in producing their product in Malaysia. DMSB is based in Batu Cave, Selangor. The product that attracts the attention of customers is the biodegradable plastic where the plastic is compostable, recyclable, eco-friendly and can reduce pollution. These are due to the properties of biodegradable material. However, the source in producing the product, which is cropland, is used excessively. The cropland should be used for food and feed the hunger people instead of using it for manufacturing. These problem raises question whether it is reasonable or not. Therefore, in order to solve this issue, an alternative method is used in producing the material for biodegradable plastic which is food waste. Food waste in the kitchen such as the banana peels, coffee grounds, rotten tomatoes and moldy bread surprisingly can be used to replace the cropland. At the same time, by using food waste, the waste in the landfill can also be reduced and pollution will be decreased when it is transformed into biodegradable plastic. Thus, the world environment will get better.

polypeptides, cellulose, polysaccharides, chitin or chitosan and natural rubber which can make use to produce the biodegradable polymer.

Table 2.1 List of products

Product	Specifications	Description
	<ul style="list-style-type: none"> • Straw Diameter: 5mm - 12mm • Straw Length: Adjustable • Capacity: 1000pcs/min • Print Services: Custom Straw Color • Packaging: Plastic or Paper 	<p>Every day, a large amount of people uses disposable straws. It is important to have a straw if you want to drink in a hurry or if you want to appreciate the taste of your beverages slowly. Besides, there are also people who needs to drink using a straw due to medical issues.</p>
	<ul style="list-style-type: none"> • Bag Width: 200mm - 700mm • Bag Length: 400mm - 1200mm • Bag Thickness: 0.01mm - 0.05mm • Capacity: 200 pcs/min • Print Services: Custom Bag Color • Maximum Rewinding: 400mm 	<p>The advantage is that it can placed inside the trash can. It can make the disposal of workplace waste much easier. It is also very convenient to use, the solid and roomy packs will store a large amount of expandable waste.</p>
	<p>Bag Width: 200mm - 400mm Bag Length: 320mm - 650mm Bag Thickness: 0.01mm - 0.05mm Capacity: 200 pcs/min Print Services: Printed Logo, Custom Bag Color</p>	<p>People will need to bring these items no matter if it is for groceries, food, toiletries, clothing or accessories</p>