

Institution Logo



Title of the Product/Project

BEG-O POTILIZER



PRODUCT ID

107

Group member

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ABSTRACT

We have come out with an alternative to a healthier environment for humans and nature. 'BEG-O Potilizer' is our innovation to replace the overused poly bags, especially in agricultural productivity. Our product solves the two biggest problems in the world like food waste and plastic usage. The use of plastic in the production of poly bags can be reduced by using only domestic waste and linut as the binding agent. No more food wasting occurs when we use this waste and turn it into something useful, which is BEG-O Potilizer.

INTRODUCTION

Plastic usage and food waste keep worrying us as they could lead to many environmental problems. Plastic has been proven harmful for all living creatures as it contains many chemicals and hazardous substances. The massive amount of food waste could lead to odour pollution and water pollution if we do not counter it henceforth. Other than these two problems, there is one issue that troubled most Muslim farmers, which is the usage of fertilizers that may contain pig dung as it considers unhygienic to them. Thus we have come with a brilliant solution which is a 2-in-1 item called BEG-O Potilizer.

SHARIAH COMPLIANCES

The usual fertilizer we find in stores is usually made of animal dung which we are not sure what kind of faeces is in it. As a Muslim, it is considered unhygienic when the product contains anything related to pig especially pig dung. We are 100 percent sure that our product is safe and clean as it only uses domestic waste such as eggshells, banana peels, onion peels, and garlic peels.

PRODUCT DESCRIPTION/ INNOVATION IN BRIEF

BEG-O Potilizer is a natural organic fertilizer bag which contains four main food wastes; **B**anana peels, **E**ggshells, **G**arlic and **O**nions peels and skins (**BEG-O**).

Replicability: It is easy to reproduce this BEG-O POTILIZER because all the items used in the production are accessible in our school. We came from a school that emphasizes the importance of recycling things. In our school, there are some places created to accomplish this which are recycling centres. On top of that, we are also hostel students which means we can get all of the domestic waste straight from our dining hall.

Usability: BEG-O Potilizer is a 2-in-1 item that is a poly bag and fertilizer at the same time. It is very convenient for users, especially farmers because the process does not require a lot of work and it is less time-consuming.

Commercial value: Our product is assuredly practical and low-price due to the attainable items and it's worth buying especially for farmers.

SIGNIFICANCES

- Protect the ecology
- The use of biodegradable materials causes it environmentally friendly
- Significant over the maximum growth rate in the plants, length of the plants and the mass productivity

NOVELTY/ ORIGINALITY

- The product has never been manufacture before.
- Linut, food that we can easily access in Sarawak, especially at Belawai and Mukah divisions, is applied as our binding agent.

AWARDS :: PUBLICATION :: PATTERNS

The product has never been competed in any competition as it is newly invented by us.

METHODOLOGY

Decide the ingredients

Mix the ingredients
(‘trial and error’
process in order to
define the best
proportion)

Finalize the product

Experiment with the
actual commercialize
fertilizer and polybag

“LEADING INNOVATION”