

# ECO-NIC FIRESTARTER

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## ABSTRACT

ECO-NIC FIRESTARTER is a natural fire starting product carefully designated for indoor and outdoor activities like cooking, generating light and heat, signaling and also for incineration of waste. We make sure that Eco-nic Firestarter is an eco-friendly product as it aligns with 3R concept (Reduce, Reuse and Recycle). To guarantee the quality of environment is always in a good care, combination of cow dung and recyclable materials are used as the main ingredients of the product. Our product is 98% made of organic components. Their main ingredients are cow dung, coconut husk, effective microbe (EM) and citronella which are safe, affordable and free from chemicals. We believe our product will become staple household goods as it can be used for various activities, marketable to every group of people and costs a lot cheaper than existing products today.

## 1. INTRODUCTION

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### 1.1. Objectives

- 1) To encourage the 3R lifestyle (Reduce, Reuse and Recycle) by producing an eco-friendly product;
- 2) To reduce and overcome pollution by reusing the recyclable materials;
- 3) To produce a product that is useful and aid the daily life activities; and
- 4) To come up with a product with significant values than other existing products in the market.

### 1.2. Argument

- a) Increasing amount of cow dung results in odour pollution
- b) Dumping of cowdung excessively / irresponsibly could lead to contaminated groundwater sources and led to higher levels of ammonia emissions.
- c) Existing firestarters found in the market contain chemicals and is expensive.

## 2. MATERIAL AND METHOD

### 2.1 Material

The table below shows the materials that have been used to make Eco-Nic Firestarter.

Table 1. Specifications on Materials

NO	MATERIALS	FUNCTIONS
1.	Cow Dung	- Efficient fuel and biogas producer - High fire endurance
2.	Coconut Husk	- Strengthen the bond for the cow dung - Fire Encouragement
3.	Citronella Grass	- Fragrance to the product - Insect repellent
4.	Effective Microbe (EM)	- Reduce the cow dung odour - Eliminate bacteria

### 2.2 Method

- Finding the solutions from increasing amount of cow dung that affected Dato' Lela Maharaja Vocational College's cow farm.
- Discussions over the materials that use to produce Eco-Nic Firestarter
- Project planning
- Research, observation and experiment
- The making process of Eco-Nic Firestarter
- Surveys, demonstration, sell and briefing about the product to the society



**Figure 1.** Samples and demonstration were given to the customers and our testimony. Eco-Nic Firestarter received high recommendation and support from the buyers



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Sekian, terima kasih.

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