



**ABSTRACT**

Name of Institution: De La Salle University- Dasmariñas

Address: Dasmariñas Cavite

**TITLE: TRASH AS AN ALTERNATIVE TO GASOLINE FUEL**

(Grass Clippings, Leaves, Cardboards, Sawdust, Banana Skins, Junk mail and other trash known as P-Series)

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**FUNDING SOURCE: Parents**

**COSTS: Php 2,000.00**

**DATE STARTED: January 2002**

**DATE COMPLETED: March 2002**

**OBJECTIVES OF THE STUDY:**

**A. GENERAL**

To produce an alternative fuel for gasoline engine vehicles derived from Ethanol, MTHF (derived from cellulosic waste such as agricultural and wood waste) and pentanes plus called as P-series.

**B. SPECIFIC**

1. To convert our cellulosic waste such as agricultural and wood waste into ethanol and MTHF, two of the major components of P- series.
2. To lessen problem regarding waste paper and agricultural wastes.



**SCOPE AND COVERAGE:**

This study would only be concern with the production of ethanol and MTHF (derived from our cellulosic waste such as agricultural and wood waste specifically grass clippings, leaves, card boards, banana skins, saw dust, and junk mail) as it was blended to pentanes plus to produce P- series . This study would also discuss the benefits that we can get to P- series as an alternative fuel for gasoline engine vehicle and how it contributes for the solution to our cellulosic waste problem.

**METHODOLOGY:**

The authors gathered the necessary data and information for the study to be possible. Majority, were done through net surfing that helps the researchers in over viewing the topic. Through reading related books in our university library helps the researcher to have knowledge and for their minor reference.

**MAJOR FINDINGS:**

P- series fuel will benefit all of its consumer as well as the people in the community specifically in the area of Cavite where cellulosic waste like agricultural and wood waste were a big problem. Through the process of producing ethanol and MTHF (Methyltetrahydrofuran) cellulosic waste will eventually be lessen and later be eliminated at the same time contribute an alternative fuel for gasoline engine vehicle. P- series contributes 50% less carbon dioxide, 35% less hydrocarbons, 15% less carbon monoxide, and over 40% less ozone forming potential to the atmosphere compared to the cleanest commercially available gasoline.



**CONCLUSION:**

The authors therefore conclude through the consumption of P- series people in the community specifically in Cavite will be benefited because it will lessen our problem regarding cellulosic waste as well as contribute an alternative fuel for gasoline engine vehicle. We can derive ethanol and MTHF through cellulosic waste such as agricultural and wood waste that we can see everywhere. P- series contributes less percentage of pollutants compared to gasoline.

**RECOMMENDATION:**

The authors recommend the production of P-series in our country specifically in the area of Cavite. We can easily derived ethanol and MTHF through our agricultural and wood waste in our respective area. P- series is an alternative fuel for gasoline engine vehicle.