

# AGRICULTURAL MECHANIZATION DEVELOPMENT PROGRAM

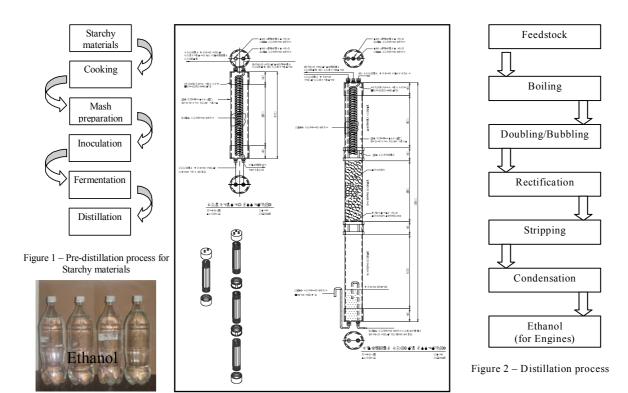
Institute of Agricultural Engineering College of Engineering and Agro-Industrial Technology University of the Philippines Los Baños College, Laguna, Philippines

# VILLAGE LEVEL ETHANOL PRODUCTION SYSTEM



For more information, contact:

The Program Director/Coordinator
Agricultural Mechanization Development Program
Institute of Agricultural Engineering
College of Engineering and Agro-industrial Technology
University of the Philippines Los Baños
College, Laguna 4031
Philippines
Tel. No. (049)536-2686 or 536-8745, Telefax No: (049)536-3606



#### **FEATURES:**

- · Utilizes a technology that is simple, practical and efficient
- · The distilling apparatus is portable and easy to assemble
- Low cost and easy to fabricate using locally available materials
- The apparatus can distill fermentation broth (beer) from different feedstocks such as starchy materials (corn, cassava, sakwa), saccharine materials (sugarcane, molasses, fruits) and coconut toddy (tuba)
- Easy and safe to operate

## **SPECIFICATIONS:**

- Distilling capacity is 1 liter of anhydrous ethanol, 170 proof (85%)
- Heat source of the apparatus could be fuelwood, bagasse, rice hull or any farm by-products
- · Can be operated by one person
- · Dimension

Length: 1.745 m Width: 1.230 m Height: 2.400 m

## **DESCRIPTION**

This technology would offer the rural livelihoods an accessible and dependable source of energy and fuel. Ethanol can be used as fuel to slightly modified gasoline engines which when coupled to generator would provide electricity for lighting. It could also be readily fueled into modified engine to serve as power source for power tiller, irrigation pump, thresher and other agricultural machines and implements needing power.