

## **BIOFUELS**

### **1. What are Biofuels?**

Biofuels are liquid or gaseous fuels produced from biomass resources and used in place of, or in addition to diesel, petrol or other fossil fuels for transportation, stationary, portable and other application.

### **2. How bio-diesel is produced and what are the feed materials required?**

Bio-diesel is a methyl or ethyl ester of fatty acids produced from vegetable oils, preferable from non-edible oils and animal fats of diesel quality. Oil can be converted into bio-diesel by a process called transesterification. Jatropha and Karanj have been identified for cultivation in large scale for producing bio-diesel.

### **3. How Ethanol is produced?**

Ethanol is produced from biomass such as sugar containing materials, like sugar cane, sugar beet, sweet sorghum etc.; starch containing materials such as corn, cassava, algae etc. and cellulosic materials such as bagasse, agricultural and forestry residues etc.