

Subject: PG Elective course for Environmental Science/biological science/chemistry/Agriculture

Course: Biomass characterization

Development Team

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Module Title :17. Biomass sample preparation for various analysis

Id : BS/BSOD/17

Objectives:The objectives of this module are to study the various steps of biomass sample preparations like sample drying, size reduction, obtaining uniform particle size and sieving.

Prerequisites: Various types of biomass, source of availability, biochemical constituent of biomass, biomass energy.

Key words: Biomass sample; drying; grinding; milling; sieving; densification.

Outcome: After learning this module, one can get information about various methods of processing the biomass into different forms and shapes suitable for energy conversion.

17.1. Introduction

The biomass harvested or collected from various localities transported to specific site are in different forms or shapes, based on their properties. The collected biomass has to be prepared in uniform size or shape before energy conversion.

In this module, we will discuss about the methods of preparing the biomass samples before it aim for energy conversion. The biomass sample preparation is to be