

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

Course: Biomass characterization

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Module Title : 12. Macroalgae (Seaweeds) cultivation

Id : MA/SWCF/12

Pre-requisite: Algae, Algae biomass, Microalgae cultivation.

Objective: To study the various methods of seaweed cultivation
andharvesting

Key words: Seaweed cultivation; seaweed farming; sporeling; rope
cultivation; net cultivation; harvesting

Outcome: At the end of this module, learners would get over all information
about the different methods practiced for cultivating seaweeds for generating
biomass.

12.1 Introduction

In the last module, we discussed about algae and their types as well as methods of microalgae cultivation in detail. In this module, we will discuss about macroalgae i.e seaweeds cultivation.

Ocean is a habitat for a large number of seaweed species. This seaweed contain rich amount of carbohydrates they are commonly called phycocolloids which are commercially used in various food and pharmaceutical products developments. For example, some seaweed polysaccharides are used as a component of toothpaste, soap, shampoo, cosmetics, ice cream, meat, processed food, air freshener, and many other items. Being rich carbohydrate growing in seawater, seaweed biomass considered potential feedstock for bioenergy conversion.