

ABSTRACT

Sugarcane (*Saccharum officinarum*) is a giant member of the Graminea family and hence has most the characteristics of a grass in its growth habits. It thrives well on a wide range of soils.

Proper land preparation and selection of healthy seed setts are important in the establishment of sugarcane cultivation. After planting it needs maintenance to grow well. Irrigation, weed control, Controlling pests and diseases, gap filling and fertilizer application are some of them. Prior to harvesting, maturity testing in the field or in the lab is very important.

Cane is usually harvested within 10-12 months after planting. After that the harvested cane should be transported to the factory as soon as possible. Sugar juice is used for making white sugar.

To obtain a good quality product, chemical analysis on juice, bagasses, molasses and filter mud in laboratory is useful. The main by-products of the sugar cane industry are bagasse, molasses and filter mud.