

Processing of Sugarcane and By-Products of Molasses

Description:

Sugarcane grows in all tropical and subtropical countries. Sucrose as a commercial product is produced in many forms worldwide. Sugar was first manufactured from sugarcane in India, and its manufacture has spread from there throughout the world. The manufacture of sugar for human consumption has been characterized from time immemorial by the transformation of the collected juice of sugar bearing plants, after some kind of purification of the juice, to a concentrated solid or semi solid product that could be packed, kept in containers and which had a high degree of keep ability. The efficiency with which juice can be extracted from the cane is limited by the technology used. Sugarcane processing is focused on the production of cane sugar (sucrose) from sugarcane. The yield of sugar & Jaggery from sugar cane depends mostly on the quality of the cane and the efficiency of the extraction of juice. Other products of the processing include bagasse, molasses, and filter cake. Sugarcane is known to be a heavy consumer of synthetic fertilizers, irrigation water, micronutrients and organic carbon. Molasses is produced in two forms: inedible for humans (blackstrap) or as edible syrup. Blackstrap molasses is used primarily as an animal feed additive but also is used to produce ethanol, compressed yeast, citric acid, and rum. Edible molasses syrups are often blended with maple syrup, invert sugars, or corn syrup. Cleanliness is vital to the whole process of sugar manufacturing. The biological software is an important biotechnical input in sugarcane cultivation. The use of these products will encourage organic farming and sustainable agriculture.

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Keywords: Processing of Sugarcane, Manufacture of sugar, Sugar Cane, Gur, Jaggery, Tissue Culture, Sucrose, Decolorization, Absorbant, Mud Waters, Crystallization, Juice, Molasses, Syrup, Thyl, Alcohol, Ethyl, Acetate, Acetic, Anhydride, Alcohol, Pressmud, Physterols, Fatty, Acids, Hardware, Biogas, Steroidal Drugs, Biomenure, Bagasse, Microprocessor, Electronic

Created At: 21 Jun, 2016