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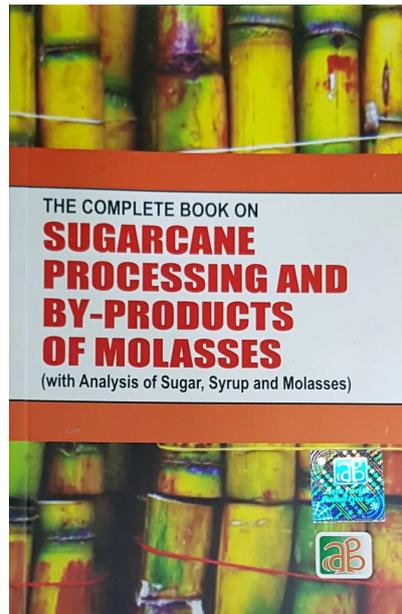
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## The Complete Book on Sugarcane Processing and By-Products of Molasses (with Analysis of Sugar, Syrup and Molasses)

<b>Code</b>	NI246
<b>Format</b>	paperback
<b>Indian Price</b>	₹1675
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### 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.

The book comprehensively deals with the manufacture of sugar from sugarcane and its by-products (Ethyl Alcohol, Ethyl Acetate, Acetic Anhydride, By Product of Alcohol, Press mud and Sugar Alcohols), together with the description of machinery, analysis of sugar syrup, molasses and many more. Some of the fundamentals of the book are improvement of sugar cane cultivation, manufacture of Gur (Jaggery), cane sugar refining: decolourization with absorbent, crystallization of juice, exhaustibility of molasses, colour of sugar cane juice, analysis of the syrup, massecuites and molasses bagasse and its uses, microprocessor based electronic instrumentation and control system for modernisation of the sugar industry, etc.

Research scholars, professional students, scientists, new entrepreneurs, sugar technologists and present manufacturers will find valuable educational material and wider knowledge of the subject in this book. Comprehensive in scope, the book provides solutions that are directly applicable to the manufacturing technology of sugar from sugarcane plant.

## **Content**

1. Sugar Cane
2. Improvement of Sugar Cane Cultivation
3. Manufacture of gur (Jaggery)

4. Grading of gur (Jaggery)
5. Nutritive Value of gur (Jaggery)
6. Machineries for the manufacture of gur (Jaggery)
7. Tissue Culture of Sugar Cane
8. Composition of Sugar Cane and Juice
9. Sucrose and reducing Sugars
10. Milling of Sugar Cane
11. Cane Sugar Refining: Decolorization with Absorbant
12. Keeping and Refining Qualities of Raw Sugar
13. Analysis of Sugar
14. Filtration/Clarification
15. Analysis of the Juice
16. Treatment of Mud Waters and Clarified Juice
17. Crystallization of Juice
18. Sugar boiling method
19. Exhaustibility of molasses
20. Colour of Sugar cane Juice
21. Analysis of the Syrup, Masecutes and Molasses
22. By Products of Molasses
  - (i) Ethyl Alcohol
  - (ii) Ethyl acetate
  - (iii) Acetic anhydride
  - (iv) By Product of alcohol
  - (v) Sugar Cane Pressmud: A Source of Physterols, Fatty Alcohols, Fatty Acids and Hardware
  - (vi) Pressmud: A Source of Biogas, Steroidal Drugs and Biomenure
  - (vii) Sugar Alcohols
23. Bagasse and its Uses
24. Microprocessor based electronic instrumentation and Control System for Modernisation of the Sugar Industry
25. Figures of Plant & Machinery of Sugar Industry

## About Niir

NIIR Project Consultancy Services (NPCS) is a reliable name in the industrial world for offering integrated technical consultancy services. Its various services are: Pre-feasibility study, New Project Identification, Project Feasibility and Market Study, Identification of Profitable Industrial Project Opportunities, Preparation of Project Profiles and Pre-Investment and Pre-Feasibility Studies, Market Surveys and Studies,

Preparation of Techno-Economic Feasibility Reports, Identification and Selection of Plant and Machinery, Manufacturing Process and/or Equipment required, General Guidance, Technical and Commercial Counseling for setting up new industrial projects and industry. NPCS also publishes various technology books, directories, databases, detailed project reports, market survey reports on various industries and profit making business. Besides being used by manufacturers, industrialists, and entrepreneurs, our publications are also used by Indian and overseas professionals including project engineers, information services bureaus, consultants and consultancy firms as one of the inputs in their research.