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**Sustainable and profitable
quality sugarcane production**

By

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THE OBJECTIVES OF CANE FARMING

1. Sustainable and profitable quality sugarcane production with economic use of natural resources like water, nutrients, light and energy.
2. Sugarcane yield = No.of millable canes X
Avg. cane weight.
3. Industry is interested in higher sugar recovery, quality bagasse for cogeneration and quality molasses for side product.

YIELD AND QUALITY OF CANE CAN BE IMPROVED BY

1. Understanding the function of the plant and its interactions with surrounding factors: environment.
2. Sugarcane is a consortium of biochemicals manufacturing industry and needs high quality of precision management. – soil fertility, soil air water relationship, managing efficient use of solar energy, adjustments with climatological factors like temperature, biological stresses, etc.
3. Soil organic matter management plays very crucial role in root functioning and root activities.

YIELD POTENTIAL AND ACHIEVEMENTS

1. By adoption of sugarcane production techniques based on crop geometry principles the author has obtained 157 T cane yield per Acre (392.5 T/ Ha).
2. Many progressive farmers from Maharashtra, Gujarat, Karnataka, Andhra, UP, Nepal are easily achieving 100 T plus cane yield per acre (250 T/Ha)

YIELD POTENTIAL AND ACHIEVEMENTS (Contd....)

3. The critical aspects are managing optimum moisture in root zone throughout the crop life, maintaining higher organic carbon content in the soil, balanced nutrition, and exploiting full utilisation of LAI, as well as LAD and timely plant protection measures.

B:C RATIO & Sustainability

1. B:C ratio is widened by cutting down the cost on seed material, especially using seedlings for planting, spacing between the rows and within the plants, intercropping.
2. Sustainability depends on organic carbon content in the soil and best management practices of soil fertility and irrigation water management besides best possible field sanitation.

THANK YOU

