

## Treatment of Sugarcane Industry Effluents: Science & Technology issues

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### Abstract

The consumption of large volumes of water and the generation of organic compounds as liquid effluents are major environmental problems in sugarcane processing industry. The inadequate and indiscriminate disposal of this effluent in soils and water bodies has received much attention since decades ago, due to environmental problems associated to this practice. Because of the large quantities of effluent produced, alternative treatments have been developed. The low pH, electric conductivity, and chemical elements present in sugarcane effluent may cause changes in the chemical and physical-chemical properties of soils, rivers, and lakes with frequent discharges over a long period of time, and also have adverse effects on agricultural soils and biota in general. The sugar cane industry is among those industries with the largest water demands and, in addition, is an important source of non-toxic organic pollution combined with the fact that India it is second largest producer and largest consumer makes it all the more important. This paper examines the present status of sugarcane effluent, its characteristics and chemical composition. Keeping in view the relevant policy scenario in India, various available treatment technologies are discussed.

**Key words-** Sugarcane industry, effluent management, treatment

### 1. Introduction

Increased demand for food and the need to sustain the ever increasing world population have led to massive increase in both agricultural and industrial activities. Agriculture is one of the most significant sectors of the Indian Economy. Agriculture is the only means of living for almost two thirds of the workers in India. The agriculture sector of India has occupied 43% of India's geographical area, and is contributing 16.1% of India's GDP. Agriculture still contributes significantly to India's GDP despite decline of its share in India's GDP. There are number of crops grown by farmers. These include different food crops, commercial crops, oil seeds etc., sugarcane is one of the important commercial crops grown in India. There are around 45 millions of sugar cane growers in India and a larger portion of rural laborers in the country largely rely upon this industry. Sugar Industry is one of the agricultural based industries. Today, India is one of the first ten industrialized countries of the world. India, like any other developing countries, is faced with problems arising from the negative impact of economic development due to water or industrial pollution. Rapid progress made in industrialization without adequate environmental safety measures lead to pollution of water, which in turn, results in lack of good quality water both for irrigation and drinking

purposes. Every human society, whether urban, industrial and most technologically advanced, disposes of certain kinds of by-products and waste products into the biosphere in large quantities, ultimately affecting the normal functioning of the ecosystem and have adverse effect on plants, animals and human. Awareness of environmental problems and the potential hazards caused by industrial wastewater has promoted many countries to limit the discharge of polluting effluents<sup>1</sup>.

In many developing countries, especially in Asia and South America, sugar cane industry is one of the most important agricultural industries. As a consequence, sugar cane industry has significant wastewater production. Unfortunately, due to the lack of know-how and financial support, most of sugar cane industries in developing countries discharge their wastewater without adequate treatment. Similar with other wastewater generated by food processing plants, wastewater from sugar cane industry generally contains organic materials such as carbohydrates and proteins<sup>2</sup>. Generally effluent generated from sugarcane industry is disposed off on land. While moving on land, part of pollutants in the effluent may be migrated and deposited between the gaps of soil stratum and adsorbed on the soil particles surface, resulting in pollution of soil. Furthermore, the migrated effluent flows through the gaps in the soil

# Treatment Of Sugarcane Industry Effluents Science

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