

Treatment of Dairy Industry Waste Water for Eco-Friendly Disposal

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Abstract

The process for treatment of waste water generated from the milk processing plant has been described and discussed. Characterization of dairy waste water with respect to various inorganic and organic constituents presents therein and the consequent harmful health effects have been highlighted. Different treatment techniques for environmentally-acceptable disposal of the waste water have been presented. A comparative picture together with processing technique for various conventional bioreactors has been given. In view of certain advantages, the use of novel immobilized bioreactors has been emphasized in the treatment of dairy waste water. A few recent techniques being developed for the treatment have also been highlighted.

Key words: dairy industry, wastewater characterization, physico-chemical treatment, biological treatment, bio-reactors.