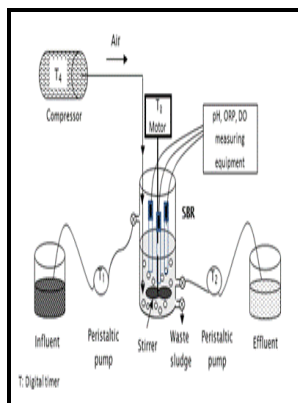


# Wastewater management - with special reference to tanneries

Discovery Pub. House - Environmental Impact and Treatment of Tannery Waste



Description: Contributed articles; with reference to India.

-Wastewater management - with special reference to tanneries

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Notes: Includes bibliographical references.

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## Wastewater from leather tanning and processing in Palestine: Characterization and management aspects

Their study involves a rigorous mathematical modeling and simulation of bioreactor performance and subsequent validation of the simulation results by comparing with elaborate experimental data collected on laboratory scale as well as on pilot plant scale. At the top of the reactor, there is a chamber of larger cross-section, which acts as a gas-liquid-solid separator.

## Tannery Wastewater Treatment by Coagulation

So, the value of 29. Each particle is surrounded by microbial cells forming a thin biofilm.

## Bibliography

However, when valuable products are to be recovered from industrial wastes through aerobic biological processes, for example for the synthesis of Xanthan gum from dairy wastes cheese whey, more or less sterile air would have to be supplied and in such cases, the bioreactor cannot be kept open and compressed sterile air would have to be sparged from the bottom. Sand filters can effectively filter the solids from the effluent of the activated sludge process. The TS level at all the sampling points exceeded the standard limits.

## Environmental Impact and Treatment of Tannery Waste

The objective of this work is to present suitable technology for environmentally sound and friendly production systems for minimizing the pollutants in the effluent of the leather processing industries. Industrial adaptation of UASB bioreactors has been fairly rapid, mainly due to its simplicity of construction it is principally a tall, empty column and due to the fact that these bioreactors provide large degree of BOD removal more than 95% even with high strength feed stocks and at significantly large capacities. BOD in the wastewater can largely be attributed to the initial steps of wood preparation, chip digester, post pulping, and bleaching operations.

## Tannery Wastewater Treatment by Coagulation

Since the system is multiphase and heterogeneous, additional substrate diffusional resistance comes into play which is accounted for by the effectiveness factor  $\eta$ .

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