

COD Removal of Tannery Wastewater using Groundnut shell

B. Komalatha¹ and L. Freeda Vinnaracy²

Research scholar, Department of Chemistry¹

Assistant Professor, Department of Chemistry²

Kamban College of Arts & Science for Women, Tiruvannamalai

Abstract: *Water pollution by industrial effluent both organic and inorganic is of serious environmental concern all over the world. In India, Leather tanning consumes a huge amount of water and introduces serious water pollution to the environment. The present study deals with utilization of agricultural by-products (Groundnut shell) for the removal of Chemical Oxygen Demand (COD) from tannery wastewater. COD removal was studied by batch process with varying adsorbent dose, contact time and pH of the solution to find optimum conditions. The maximum COD removal was found 94.37 % at dose 5gm/l*

Keywords: Leather Tanning, Adsorption, Batch, COD, Groundnut shell

