MAJOR ONGOING R&D PROJECT FUNDED BY DEPARTMENT OF SCIENCE AND TECHNOLOGY GOVT. OF INDIA
(Cost of the Project; Rs. 87.00 Lakhs)

Principal Investigator: Dr. P. Shanmugam, Head, Env.Lab
Co-Principal Investigator: Dr C. Muralidharan, Head, Tannery

Topic: Sequential Production of Bio Fuel, Glycerol and Protein using Pretanned Tannery Leather Solid Waste

1. To disseminate the enzymatic bio-fuel recovery technology in tanneries to produce the glycerol, protein and Bio-Fuels as a source of renewable green/clean energy coupled with an efficient industrial waste management system.

2. To reduce the environmental issues related to solid waste disposal of these leather trimmings, pickled fleshing wastes and liquid waste by converting them into resourceful value added products like biodiesel and glycerol from the fat content present in it and recovery of pharmaceutical grate protein using the residual protein content.

3. To design and demonstrate the industrial level protein extraction unit from crude protein of Tannery. Flow diagram: