

CHAPTER 1

INTRODUCTION

Pollution of natural water by industrial wastes is objectionable and damaging for many varied reasons, such as effect on public health and safety due to pollution with toxic materials, effect on aquatic and other life due to depletion of dissolved oxygen, damage to property due to acid wastes, effect on economic loss and intangible loss due to destruction of recreation facilities. The purpose of this research is to treat textile wastes fit for discharge to stream. In general, treatment operations are divided into three basic groups.

1. Physical treatment includes those operations that do not involve chemical change in the waste: mechanical separations such as settling, floating, screening, and filtering; and physical operations like heating, cooling, boiling and evaporating.

2. Chemical treatment includes neutralization of acids or alkalies precipitation and ion exchange.

3. Biological treatment may be aerobic or anaerobic treatment.

In this research concerned with chemical treatment only. The research is to find out which method is economic and suitable to treat this wastewater.