

MINISTRY OF AGRICULTURE AND RURAL DEVELOPMENT
VIETNAM FORESTRY UNIVERSITY



STUDENT THESIS

**ASSESSING CURRENT STATE AND PROPOSING SOLUTIONS TO
IMPROVE WASTE WATER TREATMENT EFFECTIVELY IN HA BAC
EXPORT GARMENT JOINT STOCK COMPANY**

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Nguyen Cong Dai

ABSTRACT

1. Topic of student thesis: “Assessing Current State And Proposing Solutions To Improve Waste Water Treatment Effectively In Ha Bac Export Garment Joint Stock Company”

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3. Supervisor: Assoc. Prof. Tran Quang Bao, Ph.D.

4. Objectives:

- Evaluating the quality of wastewater in Ha Bac Export Garment Joint Stock Company
- Suggesting solutions for improving wastewater quality in the company

5. Research contents:

The production process of the plant, the nature of the waste water source (inputs, outputs, production processes, discharge stages ...)

Evaluate the efficiency of the waste treatment and the environmental management system of the plant

6. Results:

Ha bac export garment joint stock company is one of the 50 largest garment enterprises in Vietnam. Now, the company includes 3 factories (2 garment factories and 1 industrial washing factory) and manufacture over 13 million products/ year. The company also has the necessary investment for environmental protection but the efficiency is not high.

Identify sources of waste (solid waste, waste gas, waste water) of the company and their impact on the environment. Analysis of the sampling results from the site shows that the wastewater of the company is within the permitted level of QCVN 40: 2011 / BTNMT. However, there are some indicators that exceed the allowed QCVN are organic substances containing parameters: TSS, turbidity.

The Environmental Quality Control Department is responsible for planning the environmental protection of the company and for controlling the quality and quantity of the company's wastewater before it is released into the environment.

The company is interested in waste treatment and has invested in equipment and machinery in the production process, waste water treatment process but compared to the present, the production and processing technology is quite old should not be as high as desired. Therefore, the company should upgrade and update the advanced production and processing technology in the world to achieve high economic efficiency while saving energy and protecting the environment.

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CHAPTER I. INTRODUCTION

In recent years, the textile and garment industry has been developing strongly and increasingly serving customers' demand. However, the downside is that it generates large amounts of waste, including solid waste, gas and sewage, and these are also major causes of global environmental pollution.

The textile and garment industry is one of the most important industries and has made a significant contribution to the improvement of people's living and income and employment. Ha bac export garment joint stock company is one of the 50 largest garment enterprises in Vietnam. The company was established in September 2002, with over 3,000 experienced and skillful staffs, with advanced equipment and advanced equipment. The company has a total area of 40,000 square meters. The company specializes in manufacturing garment products including make products according to samples available from customer's orders and Launder or dye the products according to samples available from customers' orders. The company has played an important role in the development of neighboring areas as well as Bac Giang province. The production activities of the plants are constantly developing the product volume, which makes the quality of waste increased constantly. In particular, by looking at the sources, I found no one to do research to assess the quality of wastewater at the Ha Bac Garment Export Joint Stock Company. Therefore, in front of the real situation of the company I have started to implement the topic: *“Assessing Current State And Proposing Solutions To Improve Waste Water Treatment Effectively In Ha Bac Export Garment Joint Stock Company”*. Thereby, I want to know how the company has environmental management policies. How effective are these policies applied? What are the existing environmental management issues of the company today?

The result of the research is to make objective assessment comments together with solutions to improve the environmental protection for the plant. This will contribute to the company's sustainable development and environmental friendliness.

CHAPTER II. LITERATURE REVIEW

2.1. THE GENERALITY OF GARMENT MANUFACTURE IN THE WORLD

2.1.1. The history of the formation and development of the textile and garment industry in the world.

The history of textile and apparel development is also the history of shifting the textile and apparel industry from the developed to the less developed area by the effects of comparative advantages. However, this does not mean that the textile industry no longer exists in developed countries but it has grown higher with high fashion products to cater to a group of people.

This change began in 1840 from England to other European countries. It was followed by Europe from Japan in the 1950s. Since 1960, when the cost of manufacturing in Japan increased and the labor force was lacking, the textile industry moved to new industrialized countries (NICs). Hong Kong, Taiwan, Korea. Due to the shift of the textile industry, by 1980, the comparative advantage of the textile industry was declining. These countries shifted to producing high-tech and technical products such as automobiles and electronics. The textile industry continues to shift to South Asian countries, China and then to other countries, including Vietnam.

2.1.2. The characters of the textile industry in the world

a) On consumption:

In the world trade, textile and garment products are one of the first commodities to enter into international trade, and textiles and clothing have particular characteristics that greatly affect production and trade. Some of these features are:

- Textiles and garments have a rich and varied demand depending on consumers - different consumers in terms of culture, geographical area, climate, sex, age, etc. different in costumes. Market research to understand the demand of each group of people in different markets is especially important in the consumption of products.
- High-fashion textiles and garments must change their designs, styles, colors and materials in order to meet the needs of new, unique and impressive consumers. Therefore, to understand the trends of fashion is very important.
- Labeling is also one of the prominent features of the world's textile and clothing trade. Each manufacturer needs to create its own brand. Product branding from a social point of view is often a factor in certifying the quality of goods and the reputation of producers, which is a matter of concern in the product strategy because consumers not only take into account prices but also the quality of the product.