

To Study the Sustainable Future of the Apparel Industry

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Abstract: *Sustainable fashion is a recent movement within the apparel industry that aims to reduce textile waste and environmental depletion while increasing ethical treatment of workers, the goal is to slow down the global production and consumption process in order to form an industry that will be more sustainable in the long run. Along with the development of more socially and ecoconscious production and marketing practices, there is still room for the sustainable fashion movement to grow beyond its current scope.*

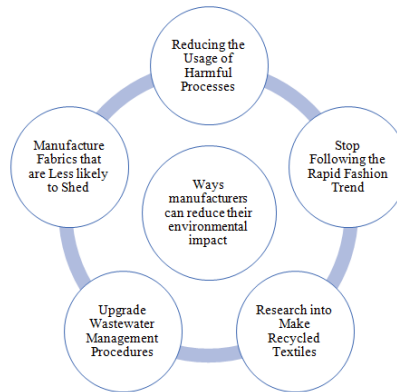
Keywords: Sustainability, Apparel, fabric waste.

I. INTRODUCTION

Sustainability is becoming an important part in apparel industry. Manufactures as well as customers are mainly focusing on sustainability and its significant becoming in crucial point while buying selling of goods. Consumers are becoming more conscious while purchasing the goods. As we know, the apparel and textile industries are among the most polluting industries in the global world. These industries are responsible for different types of pollution like water pollution, air pollution, greenhouse and harmful gas emission in the environment. So, due to the harmful impact on the environment, sustainability is a crucial point in the manufacturing industry. In the garment manufacturing process a huge amount of waste is generated, thus eliminating and minimizing these various wastes throughout the manufacturing of goods is become an important point to consider. In this article, we will discuss the importance of sustainability in the apparel industry. Sustainability plays a critical role in an eco-friendly environment which impacts the clothing production system, improves working conditions at the workplace, and serves ethical practices through the production of goods, the use and application of eco-friendly material and manufacturing systems provide a sustainable workplace in the manufacturing organization. Sustainability in the manufacturing system deals with reducing waste, recycling of wastages, reusing dead resources, and recovering the material. This 4R of sustainability builds a strong sustainable system in apparel industries. So what is meant by Sustainability? 'It is everything that leads to an integrated with human life, which is related with present and future, within a civilized framework that preserves and develops the environment' Now so many developed countries and developing countries are started to adopt the various principles of sustainability to support the environment and the lifestyle of society.

Five Ways Manufacturers Can Reduce Their Environmental Impact

Everyone in society, are concerned about the environmental impact due to pollution and hazardous waste. The environmental impact due to the textiles and apparel industries is long-term and dangerous to the people living around these manufacturing industries. So some suggestions are made for the substantial benefits and improvement. The following diagram shows the ways that textile makers can help the industry advance.



Research objectives

The specific objectives of this research are:

1. Identify and analyses materials waste in the apparel industry
2. Trace post-production wastage and determine the scope for re-utilizing within the circular.

Apparel manufacturing – The Apparel Industry is behind when talking about Sustainability. Even though they are willing to transform and improve their businesses, implementing sustainable practices is slow-moving. Issues such as the origin of raw materials and the fashion carbon footprint have appeared recently, but businesses are yet to implement them fully. Supply Chain (SC) transparency has the power to drive multiple benefits across the Apparel Industry. It is a core pillar to design a more sustainable fashion industry. Regulators and consumers cannot determine product sustainability qualifications without visibility of organizations involved in the entire value chain and insights into all components and materials used. So, there is a need to join forces to look into existing conditions of the Apparel SC and the best way to move forward.

TEXTILE WASTE: Small pieces of fabric and discarded fabric samples, ranging from centimeter to 1/2 meter pieces, are actually thrown away by the apparel industry. Which degrades the environment mainly the land.

Cut-fabric panel: The faulty cut panels are produced during pattern cutting and subsequent sewing operations in apparel manufacturing. Some of these are ‘Medium’ or ‘Large’ in size. Cut panels of medium sizes are reused to make smaller-sized apparel. For example, faulty cut panels of large or extra-large sized T-shirts are used to make small-sized T-shirts. Thus, cutting faults are removed and reused to make new products. The large panels are used in boutique shops, bag making, cushion covers, quilt covers, and local apparel.



(a)

(b)

(c)

Use of waste from apparel industry

- Some people are working for sustainability in Madhya Pradesh. Like Kumbaya where even 1 by 1 cotton cloth is not thrown away, whereas bed sheets are made..

- Bags can be manufactured.
- Doormats can be manufactured.
- Which gives more profit in less cost.

Consumers' Knowledge of Apparel Social and Environmental Issues In recent years, the extent of consumers' knowledge of AT social and environmental issues has been a focus of research. Studies assessing consumers' knowledge of apparel social issues often utilize Dickson's (1999) Knowledge of and Concern with Apparel Social Issues Scale. The scale includes several items that measure consumers' beliefs about the use of child labor and the treatment of workers in both domestic and foreign factories. Additional items assess knowledge of social issues in the apparel and textiles industry, including whether consumers perceive that they are knowledgeable, informed, and concerned with domestic and offshore manufacturing., The Environmental Apparel Knowledge Scale (Kim and Damhorst 1998) measures consumers' knowledge of environmental issues related to the production and recycling of apparel goods. Specifically, the scale includes statements regarding chemical pollutants produced in the manufacture and processing of fibers, the recyclability and biodegradability of goods, and federally mandated standards for clean air and water imposed on manufacturing firms .

II. CONCLUSION

The apparel industry plays a significant role in the global economy, but this industry has also been associated with numerous environmental and social challenges. The importance of sustainability in the apparel industry cannot be overstated. By adopting sustainable practices, the apparel industry can reduce its environmental footprint, ensure fair treatment of workers, and meet the growing demand for eco-friendly products. The shift towards sustainability offers various benefits and opportunities. To secure a profitable and healthy future, the apparel industry must continue to prioritize sustainability and its applications.

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