

**PROBLEMS FOR IMPLEMENTING SUSTAINABLE MANUFACTURING PRACTICES BY
TEXTILE INDUSTRIES IN VIRUDHUNAGAR DISTRICT**

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ABSTRACT

Nowadays, sustainable manufacturing practices had become a critical issue for the manufacturing industrial units worldwide. Sustainable practices are most important concept to survive in today's competitive business world. Today's current business environment the implementation of sustainable manufacturing practices is still relatively low in both manufacturing and service sectors. The purpose of this paper is to investigate problems for implementing sustainable manufacturing practices in textile industries.

Keywords: Problems, sustainable, manufacturing, practices.

1. INTRODUCTION

Sustainable manufacturing practices had certainly become one of the critical issues for the textile industry. The textile industry has positive contributions to the Indian economic development. The textile industry constitutes a production system that directly and indirectly relates to economic wealth creation as well as impacts on the natural and human environment along all dimensions of the product life cycle. The implementation of sustainable manufacturing practices had become a necessity for textile industry. Sustainable manufacturing is defined as the creation of manufactured products that to minimize environmental impacts, to conserve energy and resources, to reduce the waste, to conserve energy, to control emissions. This study relates to a survey in investigating the problems for implementing sustainable manufacturing practices by textile industries.

2. METHODOLOGY

The present paper is based on both the secondary and primary data collected relating to the sustainable manufacturing practices by textile industries. The secondary data provided the background and supportive information relating to this study. Primary data were also collected through a statistical survey with textile manufacturing industries in Virudhunagar district on matters relating to their profile and the sustainable manufacturing practices. A formal enquiry was made using interview schedule designed for the purpose, from 300 textile manufacturing industries selected conveniently. It was undertaken with the objective to analyze the problems for implementing sustainable manufacturing practices by textile industries in Virudhunagar district. The study is subject to the limitations that the data gathered are at descriptive level than more specific detailed analysis and the geographical area covered is limited to textile industries in Virudhunagar district only.

3. ANALYSIS AND DISCUSSION

The examination of the data collected revealed that out of the 300 samples, a majority of 157 respondents, representing 52.33%, located their industries in villages and the remaining 143 respondents (47.66%) located in municipality area. The scrutiny of data revealed that out of 300 respondents, a majority of 211 respondents, representing 70.33%, were formed as a sole proprietorship followed by 65 of the respondents (21.66%) were partnership concerns, 13 respondents (4.33%) were Co-operative Societies, 7 respondents (2.33%) were Joint Stock Companies and the remaining 4 respondents (1.33%) were Joint Hindu Family.

The analysis of data also disclosed that out of 300 respondents, notable portion of 176 respondents, representing 58.66%, were micro industries, followed by 88 respondents (29.33%) were small industries and the remaining 36 respondents (12%) were medium industries. The analysis of the data gathered showed that a majority of 187 respondents, representing 62.33 per cent, had membership with industrial association, followed by 89 respondents (29.66%) had membership with commerce association, 16 respondents (5.33%) had membership with eco-club and the remaining 8 respondents (2.66%) had membership with other local association like wild life save, consumer protection, union and so on. The following is the tabular presentation of the above findings on different profile variables.

TABLE – 1 PROFILE OF THE TEXTILE MANUFACTURING INDUSTRIES

S. No.	Profile variables	Number of respondents	Percentage to total
Location			
1	Municipality	143	47.66