

Dyeing Of Wool Fabric With Natural Dye Extracted From Kalanchoe Pinnata (Patharchatta) and sida cordifolia(bala) Leaves

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Abstract

In the present work, focussed on natural dye which is extracted from medicinal herb k.pinnata and sida cordifolia via aqueous extraction method was applied on wool fabric following three different methods pre-mordanting, meta-mordanting and post-mordanting with different natural and chemical mordants. And its evaluation methods like light fastness, wash fastness, hot and cold wash with staining wash fastness via cotton and wool, computer colour matching.

Keywords: - k.pinnata, natural dye, wool textile fabric, evaluation method.

1. Introduction

Textile dyeing using chemical mordants generates a large amount of effluents in terms of carcinogenic heavy metals. Therefore, there is dire need to find out suitable eco-friendly mordants and dyes. The use of abundantly available and waste of vegetables, fruits and other natural resources such as orange peel extract, pomegranate peel extract, natural herbs, etc. as natural dyeing and mordanting agents may be better substitutes to synthetic substances [2]. Natural mordants also have a wide application area for mordanting of natural dye, giving rise to different hues of corresponding natural dye. Some available natural mordants can also be used as a natural dyeing agent. Gooseberry powder, harda are this type of natural substances which acts as both dye as well as mordanting agent providing excellent shade [3]. Mordanting can be applied by pre, simultaneously and post-mordanting techniques. Different types of mordants give different shade spectrums according to

application whether applied individually or in combinations.

2.Literature Review

No literature found regarding to herbs colouring behavior with textile substrate.

3.Material and Methods

3.1 Material

a) Herbs collection: - k.pinnata and s.cordifolia herbs were collected from campus of Bhagat Phool Singh Mahila University, Sonapat, Haryana.

b) Wool fabric: - 100% wool fabric was procured from local market of sonapat.

c) Mordants: - Dry goose berry powder, harda powder and orange peel powder were used as natural mordants and alum, copper sulphate and ferrous sulphate were used as chemical mordants [6,7].

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