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**Faculty of Industrial Technology
Department of Textile Technology**



Research Project

Process and Quality Control of Products Produced at Kudhidha

Fabrics with respect to Colour Fastness and Handle.

By

Chitunhu Bellah

N006 758C

Supervised By Mr.J.A Nyathi

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ABSTRACT

Kudhinda Fabrics is a pigment printing company located in Harare, Zimbabwe. Some of its products show poor fastness properties, and stiffness. Hence the purpose of this project is to investigate the causes of stiffness in handle and poor colour fastness.

Experiments were carried out on some of the fabrics at Kudhinda Fabrics and David Whitehead Textiles Limited in Chegutu. Fixation temperature and binder amounts have a great influence on colour fastness and handle, but in this case study constant fixation temperature was used and the binder amount was varied. Three types of experiments were carried out i.e. the Kudhinda printing recipe with the binder amount as 5g/kg, an altered Kudhinda recipe with the binder amount reduced by a factor of four (1g/kg) and the last one with the Kudhinda binder amount increased by a factor of four (9g/kg). The results showed that an increase in the binder amount improves the colour fastness of printed fabrics. It was concluded that the use of 9g/kg of the binder gives the best fastness properties.