

A COMPARATIVE STUDY ON THE QUALITY CONTROL OF FINE JUTE YARN CONVENTIONAL DRAWING METHOD VS MODIFIED DRAWING METHOD

**Mohammad Abdul Jalil^{A*}, Rabindra Chandra Sinha^B,
A.K.M Mahabubuzzaman^C, MD. Rokonzaman^A**

^AMawlana Bhashani Science and Technology University, Tangail, Bangladesh

^BJahangirnagar University, Savar, Dhaka, Bangladesh

^CBangladesh Jute Research Institute, Manik Mia Avenue, Dhaka, Bangladesh.

*Corresponding author: E-mail: jalil.mbstu@gmail.com, Tel: +88-092162405, Fax: +88-0921-55400

Assistant Professor, Department of Textile Engineering, Mawlana Bhashani Science and Technology University, Tangail-1902, Bangladesh.

ABSTRACT

Drawing frame plays an important role on yarn quality. Traditional drawing frames are used for regular jute yarn. After some modifications in the pinning system of the 3rd drawing frame will improve the quality of the output sliver. This sliver is producing regular and fine jute yarn with higher tensile strength, work of rupture, breaking elongation, packing factor and quality ratio. The produced modified yarn was also more regular and uniform comparing to the traditional drawing frame.

KEY WORDS : Drawing frame, Jute, Packing factor, Specific flexural rigidity, Specific work of rupture.