

Advantage of the jute cotton & Silk blended yarn

1. It is a new hybrid attractive product.
2. It is eco-friendly Green product.
3. It is possible to produce more sophisticated diversified blended product.
4. New texture fabrics will be produced.
5. Local weaver & handicraft sector will be benefited.
6. New dimension of jute will be opened.
7. It has a bright prospect in home and abroad.

Beneficiary

- ❖ Local hand loom weaver.
- ❖ Handicraft sector.
- ❖ SME.
- ❖ End user (Consumer).



Jute, Cotton & Silk
blended yarn
Jute, Cotton & Silk
blended product

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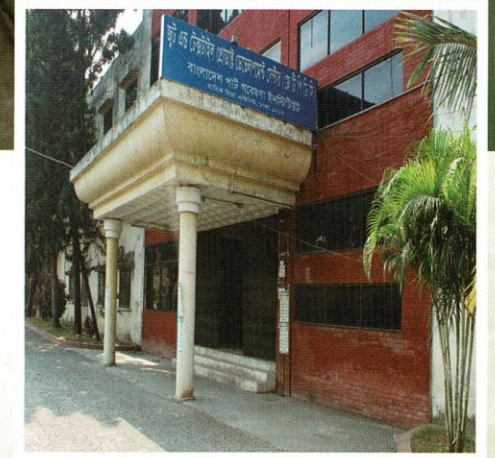
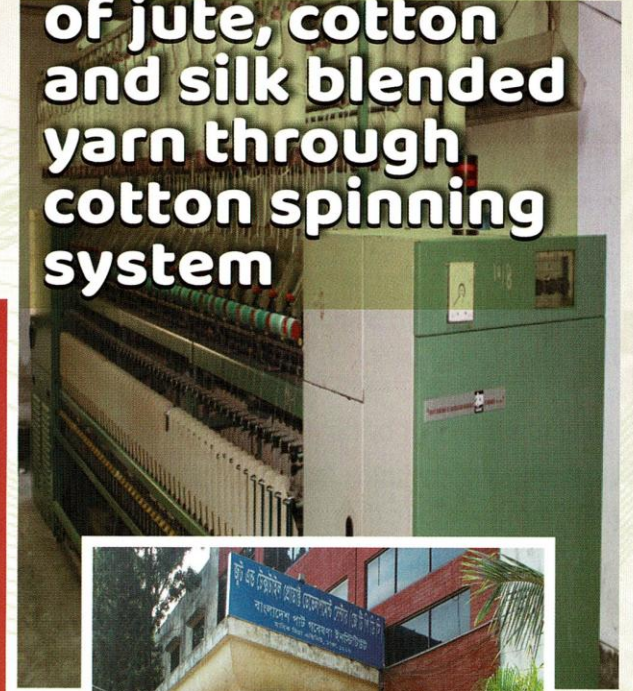
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Production & development of jute, cotton and silk blended yarn through cotton spinning system



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Project Area

Jute and Textile Product Development Center(JTPDC) Wing, Manik Miah Avenue, Dhaka-1207.

Introduction

Jute is the Most important versatile natural fiber, widely grown in Bangladesh. Mainly Tossa Jute *Corchorus olitorius* L. It contains 60-65% cellulose, 20-24% hemi cellulose, 10-13% lignin and little percent of protein mineral and fats.

Cotton fiber contains 90-98% cellulose and trace amount of other materials.

Silk fiber contains 70-75% protein fiber and 20-25% sericin and little percent of other materials.

40% Jute, 30% cotton and 30% Waste silk are blended to form blended yarn through cotton spinning system. This blended yarn looks like cotton yarn but its texture is different. It can be used for making Value added diversified jute products, such as scraf, curtain cloth, special textile fabrics etc. Jute cotton silk blended yarn is cost effective and good looking. Local hand loom weaver, Small and medium entrepreneur SME can be used this blended yarn for making their new products. It will be opened a new era of jute diversified product. There is no carbon emission during the preparatory process of silk blended product. It also has a strong potentiality as economic social and environmental point of view.

Objectives of the project

- a) To use jute with cotton and silk in cotton processing system.
- b) To produce jute cotton and silk blended yarn.
- c) To increase diversified use of jute.
- d) To inspire the entrepreneur for the production of diversified jute product
- e) To promote marketing of new jute based blended products.

Chemicals used for Jute modification

Caustic Soda	Acetic Acid
Soda Ash	Sodium Silicate
Wetting Agent	Enzyme
Softener	Sulfuric Acid
Hydrogen peroxide	

Justification of the project

Jute is low cost easy availability, eco-friendly cotton and silk are expensive fibre. So, 40% jute, 30% cotton and 30% waste silk blended yarn will be new and attractive. It can be used for making value added diversified jute blended silk products. Such as scrap ladies wear special texture fabric etc. Local weaver and SME will be economically benefited. Global warming and environmental issues are major concern in the present world. So natural fiber product is being appreciated globally.

Flow Chart of the Project/ Work Area

