

# Reviving Traditional Craftsmanship Embroidery with Corchorus Capsularis Yarn on Cotton Fabric

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**Abstract:** A traditional skill, jute thread embroidery uses jute threads to make elaborate and ornamental motifs on jute fabric. By encouraging the use of natural and biodegradable materials, this eco-friendly craft minimises waste and its negative effects on the environment. The jute plant, a rain-fed crop that needs little in the way of fertiliser and pesticides, yields the jute threads. The jute threads are hand-stitched onto the jute fabric during the embroidery process, producing a distinctive and textured design. A wide range of goods, such as apparel, accessories, and home décor pieces, may be made using the flexible technique of jute thread embroidery. The craft is a demanding and fulfilling hobby that calls for talent, perseverance, and attention to detail. The advantages and relevance of jute thread embroidery are emphasised in this abstract, along with its sustainability, distinctiveness, and cultural value.

Although many cultures still employ traditional needlework techniques, the art form is gradually vanishing as machine-made embroidery becomes more and more popular. By investigating novel materials and methods that can improve the aesthetic and cultural significance of embroidered fabrics, this study aims to maintain traditional craftsmanship.

**Keywords:** Traditional craft, eco-friendly, biodegradable, natural materials, jute thread embroidery, distinctive design, and cultural significance.

## 1.INTRODUCTOIN

Using jute thread or yarn to produce exquisite and complex motifs, jute embroidery is a distinctive and captivating type of needlework. The jute plant yields jute, a natural fibre prized for its earthy hue, texture, and longevity. Jute gives a unique organic feel and visual appeal to a variety of stitching designs.

The long, soft, glossy strands are used to make jute thread, which is a sturdy, coarse thread. Jute is an affordable, multipurpose natural fibre. Cellulose and lignin, the primary constituents of plant and wood fibres, respectively, make up jute fibres.

The stem and ribbon (outer skin) of the jute plant are the source of the fibres. Retting, which involves tying jute stems together and submerging them in slowly flowing water, is the initial method used to remove the fibres. Retting comes in two varieties: stem 0and ribbon. Stripping starts after the retting procedure.

Jute thread embroidery is a kind of embroidery in which the main sewing medium is jute fibres. Natural and environmentally friendly, jute is frequently used to manufacture ropes, sacks, and other fabrics, but it's also a fantastic material for needlework because of its distinctive texture and rustic charm. This is a summary of embroidery with jute thread.

## OBJECTIVIES:

- To create decorative designs
- To promote sustainability
- To preserve traditional crafts
- To create unique and eco-friendly products
- To promote cultural heritage
- To develop creative skills

## 2.REVIEW OF LITERATURE

Jute is a long, soft, lustrous vegetable fibre that may be spun into coarse, strong threads. It is derived from the stem of the jute plant, which is technically known as *Corchorus capsularis*. The fibre is usually used to manufacture burlap, hessian or gunny fabric, and sacks for carrying things such as coffee beans, grain, and other agricultural products. Jute is also used to manufacture various items such as carpets, rugs, and upholstery. It is a natural and sustainable resource, and it is commonly referred to as the “golden fibre” due to its golden-brown hue and its value.

A timeless art that is essential to our material culture is embroidery. Various types of ornamental needles

are used to apply the art fabric. Threads are used to create the motifs, and wires, beads, sequins, and pearls can be used to adorn the cloth. The art of using a needle and thread or yarn to decorate cloth or other materials is known as embroidery. This type of handicraft may be used to add beauty to blankets, clothes, and other items. "Embroidery" is derived from the French word "broderie," which means "embellishment." Embroidery has long been seen as a symbol of social prestige and riches, but more on that later. Let's examine the earliest beginnings of needlework.

The Saura tribe of Odisha, India, is the originator of the traditional and age-old art style known as Saura painting. For generations, the Saura tribe has been an indigenous group residing in Odisha's highlands and woods. Their art form, Saura painting, is a special kind of painting that embodies their social, cultural, and spiritual customs.

The Saura tribal people of the Indian state of Odisha are known for their wall mural paintings. These paintings, also known as ikons or ekons, are religiously significant to the Sauras and resemble Warly paintings in appearance.

Cotton, which comes from the Arabic word quit, is a soft, fluffy staple fibre that surrounds the seeds of cotton plants in the genus *Gossypium*, which belong to the Malvaceae family. The fibre is nearly all cellulose, with trace amounts of water, waxes, lipids, and pectins. The cotton bolls will help the seeds spread more widely in the wild. One of India's most vital cash and fibre crops, cotton is also a major contributor to the nation's industrial and agricultural economies. It supplies the cotton textile industry's primary raw material, cotton fibre.

### 3.METHODS /METHODOLOGY

Selection of Fabric (Cotton)



Selection of Thread (Jute)



Design Creation (Saura art)



Transfer the Design



Embroidery



Finishing



Quality Check

#### 3.1. SELECTION OF FABRIC (COTTON):

The natural fibre that makes up cotton fabric is formed by the growth of cotton plant seeds; as the fibres dry, they take on the appearance of tubes and twist into a flat shape. The fibres inherent twist makes them perfect for spinning into yarn. Because of the fibres' tube-like shape, cotton fabric is breathable and efficient in absorbing moisture.



[Fig 1 Cotton Fabric]

#### 3.2. SELECTION OF THREAD (JUTE):

Jute thread embroidery is a kind of embroidery in which the main sewing medium is jute fibres. Natural and environmentally friendly, jute is frequently used to manufacture ropes, sacks, and other fabrics, but it's also a fantastic material for needlework because of its distinctive texture and rustic charm. This is a summary of embroidery with jute thread. Made from jute, a naturally occurring vegetable fibre, jute thread is robust and coarse.



[Fig 2 Jute Thread]

#### 3.3.DESIGN CREATION (SAURA ART):

Saura art, often referred to as "Ikons," is a traditional tribal art form that is practiced by the Saura tribe in Odisha, India. It has religious and ceremonial significance and frequently has geometric designs and natural colours. The Saura tribe, an indigenous clan in Odisha, India, has a unique art form known as "Saura art".



[Fig 3 Design Creation]

### 3.4. EMBROIDERY:

Using a needle to attach thread or yarn to cloth or other materials is the art of embroidery. It is an age-old craft that has developed throughout many

cultures and civilisations over the course of thousands of years. You may use specialised embroidery machines or execute needlework by hand.



[Fig 4 Embroidery Design]



[Fig 5 Embroidery Frame]

### 3.5. FLOW PROCESS:



Cotton Fabric



Design Creation



Transfer the Design



Embroidery

## 4. RESULT AND DISCUSSION

## 4.1. QUALITATIVE ANALYSIS:

TESTS	CONCLUSION	REMARK
1.COLOUR FASTNESS TO WASHING	REF RESULT	-

## 1.COLOUR FASTNESS TO WASHING:

Test Method: ISO 105- CO6: 2010

(Procedure No. A2S at Temperature: 40°C)

METHODS	TEST RESULTS	CONCLUTION
COLOUR CHANGE	4-BASE(Brown)	REF RESULT
1.STAINING ON ACETATE	4-5	REF RESULT
2. STAINING ON COTTON	3-4	REF RESULT
3. STAINING ON NYLON	4-5	REF RESULT
4. STAINING ON POLYESTER	4-5	REF RESULT
5. STAINING ON ACRYLIC	4	REF RESULT
6. STAINING ON WOOL	4-5	REF RESULT



[Fig 6 Saura Art Embroidery]

## 5. SUMMARY AND CONCLUSION

In addition to Using *Corchorus capsularis* (jute) yarn on cotton cloth to revive historical embroidery skills aims to blend sustainability and heritage textile techniques. This study highlights the power, beauty, and cultural significance of jute stitching while examining its possibilities as an eco-friendly alternative. By fusing ancient embroidery techniques with jute thread, artisans may create unique textile products that meet current sustainable fashion trends. The study examines the versatility of jute yarn for embroidery while addressing concerns such as thread elasticity, stitch compatibility, and fabric contact. The revival of jute stitching on cotton fabric provides a feasible route to eco-friendly design and traditional craftsmanship. Despite some technological challenges, advancements in fibre treatment and embroidery techniques can enhance the use of jute. This initiative revives artisanal skills and ecological

responsibility while promoting innovation in textile arts. By embracing this technique, designers and artisans may help create a more sustainable and ethnically diverse fashion industry.

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