

# FIBERCRAFT ST. CILIA'S PROFILE



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## Introduction

### Overview of St. Cecilia Fiber Industries (Pvt) Ltd

St. Cecilia Fiber Industries specializes in the manufacturing of high-quality twines, serving various industries. Committed to excellence, we aim to redefine standards in the twine manufacturing sector.

### Vision Statement

To be a premier twine manufacturing company, known for innovation, reliability, and customer satisfaction.

### Mission Statement

St. Cecilia Fiber Industries is dedicated to producing top-notch twines, meeting the diverse needs of our customers. We strive to maintain the highest quality standards while fostering a culture of sustainability and continuous improvement.



Figure 2-Hops Growing Process



Figure 1-Hops Growing Process



Figure 3-Hops Growing Process

## Company History

### Inception of St. Cecilia Fiber Industries (Since August 2020)

St. Cecilia Fiber Industries commenced operations in August 2020, founded with the objective of delivering exceptional twine products to the market. Since its establishment, the company has achieved significant milestones and navigated through challenges, solidifying its position in the twine manufacturing industry.

### Milestones and Achievements

#### Innovative Product Development

St. Cecilia Fiber Industries has consistently pioneered innovative twine solutions, introducing products that have set new industry standards. Our commitment to research and development has resulted in twines with enhanced durability, versatility, and sustainability.

#### Client Partnerships and Collaborations

Building strong relationships with clients has been a cornerstone of our success. Our strategic partnerships and collaborations with key industry players have not only expanded our market reach but have also allowed us to tailor our twine products to meet the specific needs of diverse sectors.



Figure 4-Our Team





*Figure 5-Twine Manufacturing Process*



*Figure 6-Cutting and Quality Checking Process*





Figure 7- Cutting Process



Figure 8-Twine Drying Process



*Figure 9- Capture of the Storing Process*

## Our Product

Coir bristle fiber extracted from coconut husk is mechanically spun into a 2-ply coir twine with the help of a cotton thread which runs inside of each ply. The yield of hop is higher than its competitive products such as steel wire, paper twine. The labor requirement is less as the hop vine grows itself up in hop twine due to its hairiness, than its competitive products whereas regular guidance is needed. Once the hop is harvested the rest of the hop vine with coir twine is converted into compost solving two problems of the farmers.



*Figure 10-Final Product*



### Core Values

- Innovation: We continuously push boundaries, seeking innovative solutions that redefine industry norms.
- Quality: Our commitment to delivering high-quality products is non-negotiable, ensuring reliability and longevity in every twine we produce.
- Sustainability: We prioritize eco-friendly practices, incorporating sustainable materials and processes to minimize our environmental impact.

### Average Properties of Raw Material (Coir Fiber)

Water soluble	5.25%
Pectin & related compounds	3.30%
Hemi-Cellulose	0.25%
Cellulose	43.44%
Lignin	45.84
Length (average)	6 to 8 in
Density	1.40 g/cc
Tenacity	10.00 g/Tex
Breaking elongation	30%
Diameter	0.10 to 1.50 mm
Rigidity of modulus	1.8924 dyne/cm <sup>2</sup>
Swelling in water (diameter)	5%
Moisture at 65% RH	10.5%

Table 1-Average Properties of Raw Material (Coir Fiber)

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Figure 11-Hop Twine



Figure 12-Twine Bales (24 Bundles)



Figure 14-Twine Bales (24 Bundles)



Figure 13-Twine Bales (24 Bundles)

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## Evolving Challenges and Solutions

### Supply Chain Optimization

Navigating challenges in the supply chain, St. Cicilia Fiber Industries has implemented innovative solutions to ensure a seamless flow of raw materials and timely delivery of finished twine products. This adaptability has strengthened our resilience in the face of market fluctuations.

### Sustainability Initiatives

In response to the growing demand for eco-friendly products, we have embraced sustainability initiatives in our twine manufacturing processes. This includes the integration of environmentally friendly materials and practices, aligning with our commitment to corporate social responsibility.

## Scope of Operations

### Twine Manufacturing

#### Manufacturing Processes

St. Cicilia Fiber Industries employs cutting-edge manufacturing processes to produce twines with precision and consistency. Our state-of-the-art facilities ensure that each twine meets the highest quality standards, adhering to specifications and industry regulations.

#### Quality Control Measures

Quality is paramount in our operations. Rigorous quality control measures are implemented at every stage of the manufacturing process, from sourcing raw materials to the final packaging. This ensures that our twines not only meet but exceed customer expectations.



## Market Presence

### Market Strategies

Our market strategies are focused on differentiation and customer satisfaction. By consistently delivering high-quality twines and adapting to market trends, we position ourselves as a reliable and innovative player in the twine manufacturing sector.

## Conclusion

In wrapping up this chapter on St. Cecilia Fiber Industries, our commitment to excellence in twine manufacturing, particularly for hops growth, shines brightly. Since our inception in August 2020, we've meticulously woven a narrative of achievements and partnerships, all centered around enhancing the cultivation of hops.

At the core of our mission is the dedication to providing twines that nurture the unique needs of hops plants. As we gaze into the future, St. Cecilia Fiber Industries remains resolute in delivering twines that contribute not just to the growth of hops but to the flourishing success of our clients.