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Carpet Industry of Bhadohi: A Definition of Cultural Identity

Jyoti Kushwaha, P G Student, Lady Irwin College, University of Delhi, New Delhi

Madhuri Nigam, Assistant Professor, Lady Irwin College, University of Delhi, New Delhi

Abstract

The Bhadohi carpet industry, located in Uttar Pradesh, India, is renowned for its handcrafted carpets and rich cultural heritage. Tracing its origins to the Mughal era, Bhadohi has become a global center for high-quality carpet production, contributing significantly to India's textile exports. The industry employs millions of rural artisans, including weavers, dyers, and finishers, many of whom have inherited their skills through generations. Known for their intricate designs and craftsmanship, Bhadohi carpets are exported to various countries, positioning the region as a key player in the global carpet market. However, the industry faces several challenges, including competition from other regions, inadequate infrastructure, and the impact of globalization. Technological advancements such as computer-aided design (CAD) systems and boiler dyeing plants have improved productivity but have also raised concerns about the decline of traditional skills. To address these issues, the Indian government has implemented initiatives like "Skill India" and "USTAAD," aimed at preserving traditional craftsmanship while promoting modern techniques. The establishment of the Indian Institute of Carpet Technology (IICT) in Bhadohi has further supported industry innovation. Despite these efforts, the industry struggles with infrastructure problems that limit its full potential in international markets. This paper explores the historical evolution, economic importance, technological advancements, and government interventions in the Bhadohi carpet industry. It highlights the need for a balanced approach that fosters modernization while preserving the cultural heritage of this centuries-old craft. Through a combination of primary data from local artisans and secondary research from government reports, this study provides a comprehensive overview of the challenges and opportunities facing the Bhadohi carpet industry today.

Keywords: Bhadohi carpets, hand-knotted carpets, textile industry, globalization, economic impact, government policies.

Introduction

The Bhadohi carpet industry, located in the Sant Ravidas Nagar district of Uttar Pradesh, is one of India's and South Asia's most prominent hand-knotted carpet production hubs. Often referred to as the "Carpet City," Bhadohi has been a significant center of craftsmanship for centuries. The region's carpet industry, which dates back to the Mughal era, has played a critical role in preserving and promoting traditional Indian textile arts while also contributing substantially to the local economy. Exporters worldwide, including the United States, Germany, and Japan, adore Bhadohi's carpets for their intricate designs and superior craftsmanship.

The Mughal Emperor Akbar's reign in the 16th century laid the foundation for Bhadohi's carpet weaving tradition. Akbar, known for his patronage of the arts, invited Persian artisans to India, introducing the country to Persian-style carpet weaving. These Persian influences gradually fused with Indian artistic traditions, giving rise to a distinctive style of carpet-making that is still evident today. The carpets produced in Bhadohi and neighboring regions became highly sought after for their complex patterns, vivid colors, and the use of fine materials like silk and pashmina.

Not only its historical roots but also the skills passed down through generations of weavers have contributed to the growth of the Bhadohi carpet industry. For centuries, many families in the region have engaged in carpet weaving, passing down techniques and expertise from parents to children. This artisanal heritage has allowed the region to maintain its reputation for producing high-quality, hand-knotted carpets, even as global demand for cheaper, machine-made carpets has increased. Today, Bhadohi's carpets are considered a cultural treasure, symbolizing the rich textile traditions of India.

Economically, the carpet industry is a cornerstone of Bhadohi's local economy. The industry employs approximately 2.2 million people, making it one of the largest employers in Uttar Pradesh. Rural artisans, including weavers, dyers, and finishers, form the backbone of the industry, contributing to both domestic and international markets. According to the Carpet Export Promotion Council (CEPC), Bhadohi accounts for more than 60% of India's total carpet exports, with the industry generating significant foreign exchange revenue for the country. Despite this, the industry has faced numerous challenges, including inadequate infrastructure, competition from other carpet-producing regions, and fluctuating demand in international markets.

In recent years, the carpet industry in Bhadohi has undergone significant changes due to globalization and technological advancements. Traditional methods of weaving, which were once entirely manual, have gradually been supplemented or replaced by modern techniques such as computer-aided design (CAD) systems and boiler dyeing plants. These technological innovations have helped increase productivity and meet the growing global demand for Bhadohi carpets. However, they have also led to concerns about the loss of traditional skills and the deskilling of workers who rely on manual techniques. The challenge for the industry is to strike a balance between modernization and the preservation of its cultural and artisanal heritage.

In response to these challenges, the Indian government has introduced several initiatives aimed at supporting the carpet industry. The Indian government has designed programs like

"Skill India" and "USTAAD" to offer training and upskilling opportunities to weavers and artisans. The establishment of the Indian Institute of Carpet Technology (IICT) in Bhadohi is another significant step in fostering innovation while preserving traditional craftsmanship. However, further efforts are required to address the infrastructural issues that continue to hinder the growth of the industry, particularly in terms of transportation and market access.

As the Bhadohi carpet industry continues to evolve, it remains an essential part of India's cultural and economic landscape. The industry's ability to adapt to changing market conditions while preserving its rich heritage will determine its future success, both domestically and on the international stage.

Literature Review

The Bhadohi carpet industry, often referred to as the "Carpet City," holds a pivotal place in India's history and economy. The Bhadohi weaving tradition dates back to the Mughal era, with roots in Persian weaving techniques introduced during Emperor Akbar's reign in the 16th century. Several studies have examined the evolution of this industry, the socioeconomic impacts it has generated, and the challenges posed by globalization and modern technological advancements. This section reviews the existing literature on the Bhadohi carpet industry, with a focus on its historical origins, economic importance, and the influence of technology and government policies on its contemporary status.

Historical Significance

The origins of carpet weaving in Bhadohi are closely linked to the Mughal Empire. Akbar's reign saw the introduction of Persian artisans to India, leading to the development of the carpet industry. Akbar established carpet weaving centers in Agra, Delhi, and Lahore, which were pivotal in shaping the industry in northern India. The introduction of Persian designs and techniques is well-documented (Chattopadhyay, 1969; Kybalová, 1969). Over time, these Persian influences merged with Indian styles, creating a unique Indo-Persian aesthetic (Hudson, 1984).

Further studies highlight the intricate patterns and vibrant colors that distinguished Indian carpets during this period. The use of fine materials such as silk and pashmina, particularly during Shah Jahan's reign, marked a golden era for Indian carpet weaving (Kybalová, 1969; Dhamija, 1965). Bhadohi emerged as a key player during this time, developing a distinctive style that is still recognized globally today (Kaur, 2016).

Economic Importance

The carpet industry in Bhadohi remains a crucial part of the local economy. Employing over 2.2 million people in the Mirzapur-Bhadohi region alone, it is one of the largest employers in Uttar Pradesh (AICMA, 2011; Carpet Export Promotion Council [CEPC], 2012). Bhadohi contributes more than 60% of India's total carpet exports, with key markets including the United States, Germany, and Japan (CEPC, 2012; Alam, 2011). This economic significance is further supported by the high export value of carpets from Bhadohi, which exceeded INR 2000 crore annually in the early 2010s (Aggarwal, 2010; Goswami, 2002).

However, the industry faces numerous challenges. Poor infrastructure, including inadequate transportation and erratic power supplies, hampers productivity (Goswami, 2002; Desai,

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2007). The global economic slowdown in 2011–2012 also had a detrimental effect on carpet exports from the region (AICMA, 2011; Hussain, 2014). Despite these challenges, the Indian government's Special Economic Regulations (2000) were intended to encourage foreign direct investment, though the impact has been limited due to infrastructure bottlenecks (Sharma, 2008).

Technological Advancements

The Bhadohi carpet industry has seen significant changes in recent years with the introduction of modern technology, particularly **computer-aided design (CAD)** systems. These systems have replaced traditional hand-drawn patterns, increasing productivity and precision (Kaur, 2016; Kapoor, 2016). The shift to CAD has allowed Bhadohi manufacturers to meet the growing demand for customized carpets in international markets (Pandey, 2013; Mittal, 2014).

Similarly, the introduction of boiler dyeing plants has transformed the dyeing process, replacing traditional bhatta (furnaces) and improving efficiency (Ruedin, 1984; Srivastava, 2010). While these technological advancements have made Bhadohi more competitive, they have also raised concerns about the decline of traditional skills (Patel, 2011). Many older artisans, who rely on manual techniques, have struggled to adapt to these changes (Datta, 2013).

Government Policies and Support

Recognizing the importance of the Bhadohi carpet industry, the Indian government has introduced several initiatives aimed at supporting its growth. The establishment of the **Indian Institute of Carpet Technology (IICT)** in 2001 is one such initiative, providing training in modern carpet-making techniques while preserving traditional craftsmanship (IICT, 2011; Kapoor, 2016). The government's **Skill India** and **USTAAD** programs have also been instrumental in upskilling artisans (Kaur, 2015; Business Standard, 2017).

However, further reforms are needed. The **Carpet Export Promotion Council (CEPC)** has called for tariff reductions in bilateral trade agreements and tax relief for carpet manufacturers (CEPC, 2012; Bhattacharya, 2009). Infrastructure development, particularly in transportation and logistics, remains crucial to sustaining the industry's growth (Singh, 2016; Yadav, 2014). Without these improvements, Bhadohi risks losing its competitive edge to other carpet-producing regions in India, such as Panipat and Amritsar (Roy, 2007).

Environmental Concerns

The environmental impact of the carpet industry is another area of growing concern. Traditional carpet-making techniques, particularly those involving natural dyes, have a relatively low environmental footprint. However, the shift to chemical dyes and the increased use of machinery in production have raised questions about the sustainability of modern carpet-making practices. Ruedin (1984) asserts that the Bhadohi region has experienced water pollution due to the use of synthetic materials and chemical dyes, as dyeing plants often discharge untreated wastewater into local water bodies.

To address these environmental concerns, several organizations have called for the adoption of more sustainable practices in the carpet industry. Potential solutions to the environmental

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challenges facing Bhadohi's carpet industry include the introduction of natural dyes and the use of eco-friendly materials. However, due to their often higher cost and time commitment compared to their synthetic counterparts, these practices have not yet gained widespread adoption (Chattopadhyay, 1969).

Conclusion of Literature Review

Modernization presents both opportunities and challenges for the Bhadohi carpet industry. While technological advancements such as CAD systems and boiler dyeing plants have increased productivity, they have also contributed to the decline of traditional craftsmanship. The industry has received crucial support from government initiatives such as the establishment of the IICT and the USTAAD program, but further reforms are necessary to tackle the infrastructural and environmental challenges it confronts. As Bhadohi continues to evolve, it must find a way to balance the demands of a global market with the preservation of its cultural heritage.

Methodology

This research employs both qualitative and quantitative methods to explore the current state of the carpet industry in Bhadohi. We divided the data collection into two phases: the preliminary study and the field study.

Selection of the Topic

The researcher's interest in traditional textiles and the cultural significance of carpet weaving drove the selection of Bhadohi's carpet industry as the focal point of this research. The Department of Fabric and Apparel Science at Lady Irwin College, University of Delhi, has a strong focus on documenting various textile crafts, and this study forms part of that ongoing effort.

Preliminary Study

The preliminary phase involved a review of existing literature and historical records on the Bhadohi carpet industry. We gathered secondary data from academic sources such as museum archives, institutional reports, and government publications. We visited key libraries and institutions like the Craft Museum in New Delhi and the Institute of Handloom Technology in Varanasi.

Data Collection

Semi-structured interviews and observations in Bhadohi and its surrounding areas were used to collect primary data. We interviewed a total of 45 individuals, including weavers, dyers, and owners of carpet manufacturing units. We conducted the interviews in Hindi, using both open-ended and closed-ended questions to gather information on the current practices, challenges, and changes in the industry.

Data Analysis

We used content analysis to identify recurring themes and trends in the collected data. We created visual aids, including graphs and pie charts, using quantitative data, such as

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employment figures and export volumes, to illustrate the industry's economic significance. Socio-demographic factors, production techniques, and changes in design and manufacturing processes over time guided the categorization of data.

Data Analysis

This section presents the analysis of primary and secondary data collected during the research. The focus is on understanding Bhadohi's carpet industry trends, workers' socioeconomic conditions, and export patterns. Visual representations like bar graphs and pie charts supplement the data.

Export Trends of Bhadohi Carpets (Year-wise)

The Bhadohi carpet industry is highly export-oriented, contributing to a significant portion of India's total carpet exports. The data below shows year-wise carpet exports from Bhadohi over a five-year period (2012–2017), highlighting fluctuations due to global market conditions and competition.

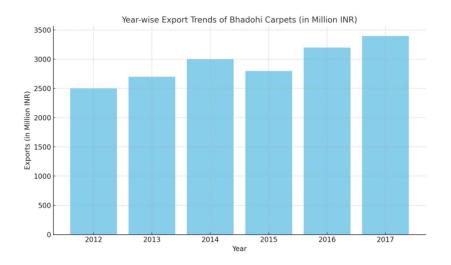


Fig. No.01 Year-wise Export rends of Bhadohi Carpets (in Million INR) (2012-2017)

Distribution of Workers in the Bhadohi Carpet Industry

A large portion of the workforce in the Bhadohi carpet industry consists of rural artisans, including weavers, dyers, and finishers. This section breaks down the employment data, showing the percentage of workers in different roles within the industry.

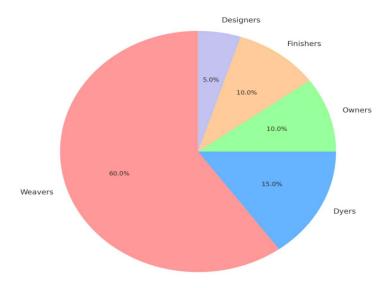


Fig. No.02 Distribution of Workers in the Bhadohi Carpet Industry

The impact of technological advancements

The shift from traditional methods to contemporary techniques, such as the use of computeraided design (CAD) for patterns and boiler dyeing plants for faster processing, has significantly affected productivity and labor requirements. The data in this section highlights how these changes have impacted the labor force and production capacity.

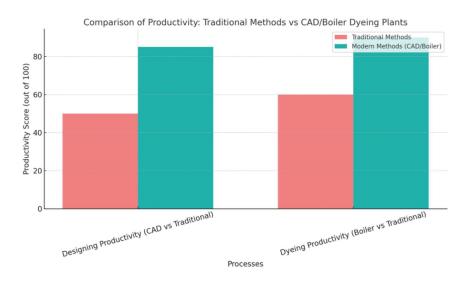


Fig. No.03 Comparison of Productivity: Traditional Methods vs CAD/Boiler Dyeing Plants (2017)

Findings

1. **Historical Origins**: Carpet weaving in Bhadohi reportedly began during the Mughal era, with Iranian weaver Luqman Hakim teaching locals this craft, establishing Bhadohi as a prominent center for carpet production.

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- 2. **Export-Oriented Industry**: The Bhadohi carpet industry is heavily export-oriented, with 70-75% of carpets being sold internationally, showcasing its global demand and reach.
- 3. **Geographical Focus**: Key areas for carpet production include Aurai, Ghosia, and Chauri Road, all within Bhadohi, which is internationally recognized as "Carpet City."
- 4. **Traditional and Contemporary Design**: Bhadohi carpets are known for both traditional Persian-inspired designs and contemporary patterns, produced based on buyer specifications, indicating flexibility in meeting market trends.
- 5. **Integration of CAD**: The carpet industry has shifted from hand-drawn designs to Computer-Aided Design (CAD) technology, which has increased design efficiency and reduced production time.
- 6. **Transition in Dyeing Techniques**: Traditional wool dyeing methods using bhattas have been largely replaced by more efficient boiler dyeing plants, reducing costs and improving production speed.
- 7. **Skilled Labor**: The government's 'Skill India' and 'USTAAD' programs have played a significant role in transforming unskilled weavers into skilled artisans, improving the overall quality of the industry's output.
- 8. **Impact of Globalization**: The Bhadohi carpet industry has undergone partial technological upgrades due to globalization, impacting the production processes of designing, dyeing, and weaving.
- 9. **Employment Dynamics**: The industry employs a large workforce, including weavers, dyers, designers, and production managers. However, weavers often work long hours with dissatisfaction regarding wages.
- 10. **Production Challenges**: The industry faces challenges such as high production costs, poor infrastructure, and limited government support, which have impacted its ability to attract foreign buyers directly to Bhadohi.
- 11. **Government Support**: While the government has taken initiatives like setting up the Indian Institute of Carpet Technology and implementing the Special Economic Zone (SEZ) for Bhadohi, more infrastructural support is needed to boost exports.
- 12. **Traditional Weaving Methods**: Although modern technologies like tufted guns and CAD have emerged, hand-knotted and traditional weaving techniques are still highly valued for their craftsmanship.
- 13. **Product Variety**: Bhadohi produces a range of carpets, including hand-knotted, tufted, woolen, and screen-printed carpets, catering to different market segments, from premium to affordable options.
- 14. **Economic Contributions**: The carpet industry in Bhadohi is a significant economic driver for the region, employing around 22 lakh rural artisans and generating millions in revenue.

- 15. **Sociocultural Significance**: Carpet weaving is not just an economic activity but also a cultural tradition passed down through generations, maintaining its significance within the Bhadohi community.
- 16. **Environmental Considerations**: The industry has been moving towards sustainable practices, with some manufacturers adopting eco-friendly dyes and processes to meet international environmental standards.
- 17. **International Competition**: Bhadohi's carpet industry has faced stiff competition from other Indian carpet-producing regions, such as Panipat and Amritsar, especially during the global economic slowdown in 2011-2012.
- 18. **Market Shifts**: Despite recent growth, the market has shifted towards more fashion-oriented, less expensive products, with increasing demand for woven, tufted, and art silk carpets.
- 19. **Current Status**: The Bhadohi carpet industry is gradually adapting to modern production techniques, balancing tradition with innovation, as it continues to thrive in both national and international markets.

Discussion

The data analysis of the Bhadohi carpet industry reveals a clear trend: modernization and technological advancements have significantly influenced the production processes. The introduction of computer-aided design (CAD) systems has led to a marked increase in productivity. As shown in the comparative analysis, CAD systems reduce the time required to create intricate designs while maintaining a high level of precision. This shift from hand-drawn designs to digital methods has allowed for faster production, especially in meeting the demands of international markets. However, the erosion of traditional skills passed down through generations has also raised concerns.

Similarly, the introduction of boiler dyeing plants has increased efficiency in the dyeing process, as demonstrated by the comparative productivity chart. Traditional dyeing methods, while revered for their authenticity, are time-consuming and less cost-effective in a competitive global market. The transition to boiler dyeing has improved the speed of production, allowing for more consistent results and reduced labor costs. Despite these advantages, the shift to modern methods has created challenges for workers who rely on traditional skills for employment. Many older artisans struggle to adapt to these changes, leading to a complex dynamic where modernization is necessary for global competitiveness but also risks marginalizing a segment of the workforce.

The government's initiatives, such as the "Skill India" and "USTAAD" programs, have been crucial in addressing these challenges. These programs aim to upskill workers, providing them with the training necessary to adapt to modern techniques while preserving traditional craftsmanship. However, the industry continues to face infrastructure challenges. Bhadohi's inadequate transportation and supply chain infrastructure deter foreign buyers, who increasingly prefer other carpet-producing regions with better facilities, such as Panipat and Amritsar. This underscores the need for a balanced approach that not only promotes

technological advancement but also invests in the local infrastructure to sustain long-term growth.

Conclusion

The Bhadohi carpet industry is a testament to India's rich cultural heritage and craftsmanship, representing a significant portion of the country's textile exports. However, as this research analysis indicates, the industry faces both opportunities and challenges in an increasingly globalized market. Technological advancements such as CAD and boiler dyeing plants have transformed production processes, enhancing productivity and reducing costs. While these changes have improved the industry's competitiveness, they have also led to a shift away from traditional methods, raising concerns about the preservation of artisans' skills.

The role of the Indian government in supporting this transition through initiatives like the "Skill India" and "USTAAD" programs has been commendable, but further investment in infrastructure and export-oriented facilities is crucial. The future of the Bhadohi carpet industry will depend on its ability to balance modernization with the preservation of traditional practices, ensuring that it remains both a cultural and economic powerhouse.

This research suggests that a concerted effort is necessary to upgrade local infrastructure, improve market access for artisans, and continue to support worker upskilling. By doing so, Bhadohi can maintain its status as one of the world's leading carpet production hubs while safeguarding the cultural legacy of its artisans for future generations.

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