

The Role of Women in Sustainable Entrepreneurship: Addressing Challenges and Identifying Prospects

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How to cite this article:Renuka S ,Sreeja S ,T. Amutha, ,V. Vimala, , R. Hemavathy, R. D. Sathiya (2024) The Role of Women in Sustainable Entrepreneurship: Addressing Challenges and Identifying Prospects. *Library Progress International*, 44(3), 18597-18605.

ABSTRACT

As India moves toward sustainable development goals, sustainable entrepreneurship, which combines environmental, social, and economic aims, is becoming more and more popular there. Women entrepreneurs are becoming important figures in this field, offering creative solutions in fields including sustainable fashion, ecotourism, organic farming, and waste management. These entrepreneurs, on the other hand, confront particular difficulties, such as limited access to funding, social and cultural barriers, operational and business limitations, problems with networking and mentoring, regulatory and policy barriers, and the combined weight of managing both business and household duties. However, success elements including market opportunities, ecosystems and support networks, innovation and competitive advantage, individual motivations and strengths, and institutional and policy support continue to flourish. Based on information gathered from a sample of 180 female entrepreneurs, this study investigates the opportunities and difficulties faced by women involved in sustainable entrepreneurship throughout India. Both quantitative and qualitative approaches are used in the study to examine the variables influencing their success. The results show that Indian women entrepreneurs are resilient in the face of obstacles, using social impact objectives, community networks, and creative approaches to create long-lasting businesses. In order to promote sustainable entrepreneurship among Indian women, the report ends by suggesting specific interventions, including community-based incubators, mentorship networks, government assistance programs, and financing schemes geared at women. By offering insights into the gendered aspects of entrepreneurship in the Indian context, the study's findings will add to the expanding corpus of literature on sustainable entrepreneurship. In order to create an environment that supports women in sustainable business, the study will also provide useful suggestions for legislators, banks, and support groups. These business owners have the potential to significantly contribute to India's sustainable development, economic growth, and environmental stewardship with the right kind of assistance and focused interventions.

Keywords: Women, Entrepreneurship, Sustainable, Challenges and Prospects

1. Introduction

An emerging strategy for addressing urgent global issues is sustainable entrepreneurship, which blends commercial goals with social and environmental objectives. The idea has been more well-known in recent years, indicating a move away from profit-driven corporate models and toward endeavors with a purpose that support sustainable development. India has emerged as a hub for sustainable businesses due to its sizable population, rising environmental awareness, and efforts to meet the Sustainable Development Goals [1]. Women entrepreneurs in particular are entering this field and starting businesses that promote social impact and environmental preservation in addition to commercial benefit. Women-led companies are showcasing the possibilities of sustainable entrepreneurship in a variety of industries, from waste management and renewable energy to organic farming and eco-friendly design [2]. These women do, however, have certain obstacles that hinder their capacity to prosper and grow their businesses in spite of their efforts. Due to ingrained gender prejudices, restricted financial resources, and cultural norms surrounding caregiving responsibilities, entrepreneurship in India has traditionally been a male-dominated field. In addition to the obstacles that come with launching a firm, women who want to pursue sustainable entrepreneurship also have to deal with social norms that make these obstacles worse. Since women business owners frequently have difficulty obtaining money from conventional financial institutions, access to funding continues to be a major barrier [3]. Further obstacles are created by cultural views regarding women's capacity to run enterprises as well as the pressures of juggling work and home obligations. In rural places, where social norms limit women's mobility and access to markets and entrepreneurial networks, these difficulties are especially noticeable. In spite of these obstacles, Indian women entrepreneurs have a number of qualities that make them ideal for long-term business. According to research, women are more likely to embrace collaborative leadership approaches and are strongly drawn to environmental and social reasons. Many female entrepreneurs concentrate on community-centered business models, using their enterprises to address social concerns and provide jobs for underrepresented populations [4]. This is in line with the fundamental ideas of sustainable entrepreneurship, which place an emphasis on both financial gains and long-term societal advantages. By promoting inclusive growth and innovation, women in sustainable entrepreneurship are acting as change agents and advancing the broader objective of sustainable development. As India seeks to shift to a greener economy, the role of female entrepreneurs in sustainable business becomes even more important [5]. A supportive environment for women-led sustainable businesses is created by government programs like Startup India and Stand-Up India as well as legislative frameworks that support environmental sustainability [6]. However, how well these regulations are implemented and how well they cater to the particular needs of female entrepreneurs will determine how effective they are. Even while there has been some improvement, there are still issues, particularly with closing the funding gap and giving women in sustainable industries access to sufficient networking and mentoring opportunities.

2. Literature Review

Three separate sections make up the literature review. While the second one focuses solely on strengths and then challenges, the first one offers on both prospects and challenges.

a. The Issues and Opportunities for Women in Sustainable Entrepreneurship Overall

In order to solve urgent concerns including resource scarcity, inequality, and climate change, sustainable entrepreneurship which combines economic practices with social and environmental goals has acquired international attention. With many of them pursuing industries like organic farming, trash recycling, eco-friendly fashion, and renewable energy, women entrepreneurs have become important contributors to this industry [7]. According to academics, women have leadership qualities and value systems that complement sustainability principles, such as empathy, teamwork, and community-focused thinking [8]. Furthermore, women-owned businesses frequently prioritize inclusive growth with an emphasis on long-term wealth creation, environmental stewardship, and social empowerment. Women-led sustainable businesses have the potential to significantly advance both the economic and sustainable development goals, according to an assessment of international and Indian research [9]. According to research by [10], female entrepreneurs are better equipped to handle sustainability issues since they are more likely than their male counterparts to prioritize social effect. Women's involvement in sustainable entrepreneurship has increased in India as a result of state-level initiatives supporting eco-friendly enterprises, government programs like Stand-Up India, and MUDRA. But the literature that is now available also points out that women's entrepreneurship is still underrepresented in scholarly studies, particularly in the field of sustainable business [11]. Numerous studies contend that structural obstacles and institutional

impediments prevent women entrepreneurs from realizing their full potential, despite the increased interest in sustainable business. Furthermore, research indicates that sustainable entrepreneurship involves growing companies to have a lasting effect in addition to launching them [12]. In order for sustainable businesses to succeed, there is a growing understanding of the necessity of supportive ecosystems that include funding, mentorship, market connections, and regulatory assistance. Additionally, new dynamics are introduced by the junction of gender, sustainability, and entrepreneurship, necessitating gender-sensitive policies to promote growth in this field [13]. This collection of studies emphasizes how crucial it is to establish an atmosphere that supports women in sustainable entrepreneurship, pointing out the opportunities and obstacles that influence their path. Women-led sustainable businesses can spur innovation, create jobs, and improve social well-being by creating supportive ecosystems [14]. The ensuing segments delve into the particular obstacles encountered by female entrepreneurs as well as the prospects accessible to them in the context of sustainable entrepreneurship.

b. Challenges Faced by Women in Sustainable Entrepreneurship

A number of obstacles prevent women entrepreneurs from launching, expanding, and maintaining their businesses, especially in the sustainable business sector. The main obstacle is financial access, as women frequently have difficulty obtaining funds from conventional financial institutions [15]. These issues are made worse by gender prejudices in lending procedures and a lack of credit history, which forces many women to rely on unofficial loans or personal resources. Despite the targeted financial support provided by government programs like as Stand-Up India, research indicates that access to and understanding of these initiatives are still low, particularly for rural women [16]. Another significant obstacle is cultural and societal norms, which frequently place the onus of running a business and taking care of the home on women. According to research, social norms still deter women from pursuing entrepreneurial endeavors because they believe that running a firm is inappropriate for them [17]. Women who work in sustainable businesses, which demand patient capital and long-term commitment, find it especially difficult to balance their personal and professional responsibilities. Another obstacle that keeps coming up in the literature is the absence of mentorship and entrepreneurial networks. Having access to networks that offer market connections, collaboration, and mentorship is frequently associated with entrepreneurial success, especially in specialized fields like sustainable business [18]. However, research shows that because these networks are still primarily male-dominated, it is difficult for Indian women entrepreneurs to access them. Women frequently struggle with company planning, financial management, and scaling their companies when they don't receive enough mentorship. The entrepreneurial environment for women in India is made much more difficult by regulatory barriers [19]. Small-scale sustainable enterprises find it challenging to function efficiently due to bureaucratic procedures and intricate compliance requirements. Due to their frequent lack of resources and expertise, women in rural and semi-urban areas are disproportionately impacted [20]. Furthermore, sustainable businesses usually ask for creativity in supply chains, marketing plans, and product development, adding to the workload of entrepreneurs already dealing with gender-based limitations.

c. Prospects for Women in Sustainable Entrepreneurship

Notwithstanding the obstacles, there are plenty of chances for women entrepreneurs in sustainable business to influence substantial change and support India's sustainable development objective. The market environment for sustainable businesses is favorable due to the growing demand for eco-friendly goods and services [21]. Consumer awareness of sustainability has increased, leading to opportunities for female entrepreneurs to innovate and serve these markets through sustainable fashion, organic food, and renewable energy solutions [22]. Additionally, women entrepreneurs are in a strong position to access local and community-based markets by using their knowledge of local preferences and requirements to develop solutions that have an impact. Government programs like Startup India and MUDRA give women entrepreneurs access to low-interest financing, capacity-building courses, and networking opportunities, among other things [23]. Furthermore, because of their potential to produce financial, social, and environmental benefits, corporate partnerships and impact investment funds are paying more attention to women-led sustainable businesses. Alternative funding options for women entrepreneurs are provided by impact investors, who are especially interested in companies that support sustainability objectives [24]. Women entrepreneurs now have more opportunities to reach a wider audience and grow their enterprises thanks to the growth of digital platforms and e-commerce [25]. Bypassing conventional market boundaries, online platforms allow them to offer their goods and services directly to customers. Additionally, the increased emphasis on sustainability reporting and corporate social responsibility has made it possible for female entrepreneurs to work with big businesses and supply chains, giving them visibility and access to markets [26]. Apart from monetary

prospects, women-focused incubators and community-based networks have become crucial support systems for women engaged in sustainable business. Coworking spaces and women-only incubators are two examples of initiatives that provide settings for entrepreneurs to collaborate, share ideas, and get mentorship. These networks assist female business owners in overcoming loneliness and forming deep connections, both of which are essential for long-term success [27]. Women in sustainable enterprise also gain from their innate compatibility with sustainability principles like social responsibility, empathy, and inclusive leadership. According to research, women entrepreneurs typically put environmental sustainability and community impact first, building socially and sustainably relevant firms [28]. In addition to improving their market standing, this alignment wins over stakeholders who are becoming more concerned about sustainability.

3. Research Methodology

Using a mixed-methods approach, this study examines the opportunities and difficulties experienced by women entrepreneurs in sustainable business endeavors throughout India by combining quantitative and qualitative data. Purposive sampling was used to choose a sample size of 180 female entrepreneurs, guaranteeing a varied representation from a range of sectors, including sustainable fashion, ecotourism, organic agriculture, and waste management. In order to highlight regional variety and variances in entrepreneurial experiences, participants were selected from both urban and rural areas. A structured survey was used as part of the quantitative component to gather information on business operations, funding sources, demographic profiles, difficulties encountered, and access to government networks and programs. The degree of difficulties and the perceived opportunities for improvement were measured using Likert-scale questions. Descriptive and inferential statistics were used to examine the survey responses in order to find trends and connections between different elements, including business success and financial accessibility. A subset of 30 participants participated in semi-structured interviews for the qualitative component in order to learn more about their entrepreneurial experiences, difficulties, coping mechanisms, and outlooks for the future. Contextual details from these interviews enhanced the quantitative results. By cross-referencing survey and interview results, data triangulation was used to increase the findings' validity. Throughout the research process, ethical principles such as participant confidentiality and informed consent were upheld.

4. Data Analysis

To investigate the links between several characteristics influencing women in sustainable business, data was analyzed using SPSS 26. Regression analysis was used to assess the predictive potential of independent factors like market opportunities and support systems on overall business performance. Furthermore, correlation analysis was utilized to determine the degree and direction of the associations between these variables, which revealed strong positive correlations. The findings provided useful insights into the elements that influence the performance of female entrepreneurs in the sustainable sector.

4.1. Demographic Characteristics of Sample Size (N = 180)

Demographic Variable	Category	Frequency (N)	Percentage (%)
Age	18-24 years	25	13.9
	25-34 years	60	33.3
	35-44 years	50	27.8
	45-54 years	30	16.7
	55 years and above	15	8.3
Education Level	Middle School	20	11.1
	High School	90	50.0
	PUC	50	27.8
	Bachelor's Degree	20	11.1
Business Sector	Organic Farming	30	16.7
	Eco-Tourism	40	22.2
	Waste Management	50	27.8

	Sustainable Fashion	60	33.3
Years in Business	Less than 1 year	25	13.9
	1-3 years	65	36.1
	4-6 years	45	25.0
	More than 6 years	45	25.0
Location	Urban	90	50.0
	Semi-Urban	60	33.3
	Rural	30	16.7

The profiles of women involved in sustainable entrepreneurship are highlighted in this demographic table. The bulk of participants (30.6%) are between the ages of 25 and 34, and 52.8% have completed high school. They have been in business for one to three years (36.1%) and mostly work in the sustainable fashion sector (33.3%), which includes eco-friendly efforts. Urban areas account for a significant portion (50.0%). Understanding the particular difficulties and opportunities faced by women in sustainable entrepreneurship and creating focused assistance plans depend on this demographic diversity.

4.2. Correlation and Regression Analysis for Strength Faced by Women Entrepreneurs

4.2.1. Correlation Analysis

The correlation study looks at how the selected strength variables relate to the overall performance of the firm as determined by success metrics like market share, revenue growth, and sustainability.

Variable	Correlation Coefficient (r)	Sample Size (N)	p-value
Market Opportunities and Business Performance	0.58	180	< 0.001
Support Systems and Ecosystems	0.55	180	< 0.001
Innovation and Competitive Advantage	0.62	180	< 0.001
Personal Strengths and Motivations	0.52	180	< 0.001
Policy and Institutional Support	0.47	180	< 0.01

All strength characteristics and total business performance have strong positive correlations, according to the correlation analysis. Innovation and competitive advantage had the strongest link ($r = 0.62$, $p < 0.001$), suggesting that companies that use innovation have a higher chance of success. Closely behind, there are high relationships between market opportunities ($r = 0.58$, $p < 0.001$) and support systems and ecosystems ($r = 0.55$, $p < 0.001$), indicating that having access to these elements improves business success. Personal motivations and strengths ($r = 0.52$, $p < 0.001$) suggest that intrinsic traits are important for successful entrepreneurship. Finally, there is a substantial correlation between policy and institutional support ($r = 0.47$, $p < 0.01$), highlighting the role that supporting policies have in encouraging sustainable entrepreneurship.

4.2.3. Regression Analysis

The regression study evaluates how well the sample of female entrepreneurs' total business performance is predicted by the selected strength characteristics.

Variable	Coefficient (β)	Standard Error	t-value	p-value
Constant	2.50	0.40	6.25	< 0.001
Market Opportunities	0.30	0.05	6.00	< 0.001
Support Systems and Ecosystems	0.28	0.06	4.67	< 0.001
Innovation and Competitive Advantage	0.35	0.05	7.00	< 0.001
Personal Strengths and Motivations	0.22	0.07	3.14	< 0.01
Policy and Institutional Support	0.18	0.08	2.25	< 0.05
R²	0.54			

According to the regression study, 54% of the variance in business performance can be explained by the strength variables taken together ($R^2 = 0.54$). Innovation and competitive advantage show the biggest positive effects among the predictors ($\beta = 0.35$, $p < 0.001$), highlighting how important innovation is to the success of businesses. Their substantial influence to total performance is demonstrated by the following: market opportunities ($\beta = 0.30$, $p < 0.001$) and support systems and ecosystems ($\beta = 0.28$, $p < 0.001$). The significance of individual attributes is shown by the critical influence played by personal goals and strengths ($\beta = 0.22$, $p < 0.01$). Finally, there is a positive but considerably smaller impact on performance from policy and institutional support ($\beta = 0.18$, $p < 0.05$). These results highlight the necessity for female entrepreneurs to take advantage of market openings, creative strategies, and encouraging networks to improve their business outcomes in sustainable entrepreneurship.

4.3. Correlation and Regression Analysis for Challenges Faced by Women Entrepreneurs

4.3.1. Correlation Analysis

The correlation study looks into the relationships between the identified challenge variables and overall business performance, which is measured by success indicators like revenue growth, market share, and business sustainability.

Variable Pair	Correlation Coefficient (r)	Sample Size (N)	p-value
Financial Challenges and Business Performance	-0.54	180	< 0.001
Societal and Cultural Barriers and Business Performance	-0.47	180	< 0.001
Operational Constraints and Business Performance	-0.60	180	< 0.001
Networking and Mentoring Issues and Business Performance	-0.52	180	< 0.00
Regulatory and Policy Barriers and Business Performance	-0.43	180	< 0.01

The correlation study reveals a strong negative association between all challenge variables and overall business performance. Operational restrictions had the largest link with business performance ($r = -0.60$, $p < 0.001$), indicating that they considerably hamper success. Financial challenges have a significant negative influence ($r = -0.54$, $p < 0.001$), followed by networking and mentorship issues ($r = -0.52$, $p < 0.001$). These findings highlight the multiple hurdles that women entrepreneurs confront, demonstrating how severely these barriers affect their company achievements.

4.3.2. Regression Analysis

The regression study determines the extent to which the identified challenge variables influence overall business performance in a sample of female entrepreneurs.

Variable	Coefficient (β)	Standard Error	t-value	p-value
Constant	3.25	0.45	7.22	< 0.001
Financial Challenges	-0.28	0.06	-4.67	< 0.001
Societal and Cultural Barriers	-0.22	0.07	-3.14	< 0.01
Operational Constraints	-0.32	0.05	-6.50	< 0.001
Networking and Mentoring Issues	-0.25	0.06	-4.15	< 0.001
Regulatory and Policy Barriers	-0.18	0.08	-2.25	< 0.05
R^2	0.48			

The regression analysis shows that the identified problems explain 48% of the variance in business performance ($R^2 = 0.48$). Among the factors, operational constraints had the highest negative impact ($\beta = -0.32$, $p < 0.001$), followed by financial issues ($\beta = -0.28$, $p < 0.001$). Business performance is highly influenced by societal and cultural hurdles ($\beta = -0.22$, $p < 0.01$), as well as networking and mentorship concerns ($\beta = -0.25$, $p < 0.001$). Regulatory and policy restrictions have a slightly weaker influence ($\beta = -0.18$, $p < 0.05$). These findings highlight the fundamental hurdles that women entrepreneurs encounter, emphasizing the necessity for specific interventions to address these barriers.

5. Findings

The results provide valuable insights into the strengths and problems that women confront in sustainable business. The correlation research reveals significant positive correlations between key strength metrics and overall business performance. Innovation and competitive advantage showed the strongest link ($r = 0.62$, $p < 0.001$), suggesting that people who use new techniques are more likely to succeed. Furthermore, market possibilities and support systems revealed strong connections with performance, emphasizing the crucial role of these aspects in promoting entrepreneurial success. The regression analysis supported these findings, demonstrating that the identified strengths account for 54% of the variance in business success. Innovation and competitive advantage were the strongest predictors ($\beta = 0.35$, $p < 0.001$), followed by market opportunities ($\beta = 0.30$, $p < 0.001$) and support systems ($\beta = 0.28$, $p < 0.001$). These findings emphasize women entrepreneurs' multifaceted skills and the need for specialized support to increase their influence.

6. Conclusion

Finally, this study emphasizes the importance of many strengths in advancing women's success in sustainable business. The findings show that leveraging innovation, identifying market possibilities, and accessing supportive ecosystems are critical for achieving long-term business objectives. Furthermore, the impact of personal qualities and motivations, as well as governmental and institutional assistance, highlights the importance of a complete approach to assisting women entrepreneurs in overcoming hurdles and improving their performance. This study adds to the expanding body of literature on sustainable entrepreneurship by giving empirical data on the characteristics that have a major impact on business success, providing useful insights for stakeholders, policymakers, and entrepreneurs alike.

7. Future Scope of Study

Future study could build on these findings by investigating the role of women in sustainable business in various cultural and geographical situations. Longitudinal research could provide more insight into how these strengths grow over time and how they affect business performance. Furthermore, investigating the efficacy of certain support programs and policies for women entrepreneurs in sustainability might lead to more tailored interventions. Investigating the interplay between difficulties and capabilities in diverse sectors of sustainable entrepreneurship can also provide useful insights. By concentrating on these areas, future research can improve our understanding of the complexity and opportunities in the landscape of women in sustainable entrepreneurship, ultimately leading to more inclusive and effective support systems.

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