A Study on the Impact of Microfinance on Women's Micro-Entrepreneurship Performance in Ernakulam District

Sreelakshmi Mohanachandran

Assistant Professor, St. Xaviers College for Women, Aluva

Abstract: ***Microfinance has emerged as a powerful tool for promoting women's entrepreneurship and economic empowerment in developing regions. In Kerala, especially in Ernakulam district, many women have accessed microfinance through Self-Help Groups (SHGs), Kudumbashree units, and Microfinance Institutions (MFIs) to start or expand small businesses. This study aims to examine the association between the level of microfinance support and women's micro-entrepreneurship performance in Ernakulam district. Using a Chi-square test of independence, the research will determine whether microfinance exposure (low, medium, or high) is significantly related to performance outcomes such as income growth, business expansion, and employment generation. A structured questionnaire will be used to collect data from 90 women entrepreneurs across selected areas of Ernakulam. The findings will help evaluate how effectively microfinance contributes to women's entrepreneurial success and guide policymakers in strengthening financial inclusion programs.***

Keywords: Microfinance, Women Entrepreneurs, Entrepreneurial Performance, Kudumbashree, Ernakulam District

1. Introduction

Microfinance plays a crucial role in empowering women by providing access to small-scale financial services that help them start or develop businesses. In Ernakulam district, programs like **Kudumbashree** and various microfinance institutions have encouraged women to engage in micro-enterprises such as tailoring, handicrafts, food processing, and retail services.

However, while microfinance improves access to capital, its **actual impact on business performance** varies among women. Some achieve significant growth, while others struggle due to limited financial literacy or poor market access. Hence, it is important to explore whether **different levels of microfinance support** are associated with **differences in entrepreneurial performance** among women.

2. Review of Literature

Previous studies (Yunus, 2007; NABARD, 2023; Kudumbashree Report, 2024) have shown that microfinance positively influences women's income and empowerment. Yet, local-level evidence, particularly from Ernakulam district, remains limited. Studies using **Chi-square analysis** (e. g., Littlefield et al., 2003) have shown that access to microcredit and training services often correlate with better performance, but not always causally. Therefore, this study fills the gap by testing the **association** between the **level of microfinance** and **entrepreneurial performance** among women in Ernakulam.

3. Objectives of the Study

1) To examine the relationship between microfinance support and women's entrepreneurial performance.
2) To categorize women entrepreneurs based on their level of microfinance exposure.
3) To test whether microfinance exposure level is significantly associated with business performance indicators such as income growth, savings, and employment generation.
4) To suggest measures for improving microfinance effectiveness in Ernakulam district.

4. Hypotheses

- **H_0 (Null Hypothesis):** There is no significant association between the level of microfinance support and women's entrepreneurial performance.
- **H_1 (Alternative Hypothesis):** There is a significant association between the level of microfinance support and women's entrepreneurial performance.

5. Research Design

Aspect	Details
Type of Study	Quantitative, Descriptive-Analytical
Area of Study	Ernakulam District, Kerala
Population	Women entrepreneurs availing microfinance from SHGs, MFIs, or Kudumbashree
Sample Size	90 respondents (30 each from low, medium, high microfinance groups)
Sampling Method	Stratified random sampling
Data Type	Primary and secondary data
Statistical Tool	Chi-square test of independence

6. Variables

- **Independent Variable:** Level of microfinance support (Low / Medium / High)
- **Dependent Variable:** Entrepreneurial performance (Low / Medium / High performance — based on income growth, employment generation, and savings)

7. Methodology

7.1 Data Collection

- **Primary Data:** Structured questionnaire administered to women micro-entrepreneurs.
- **Secondary Data:** Reports from Kudumbashree Mission, NABARD, District Industries Centre, and government websites.

7.2 Questionnaire Outline

Section A – Personal Profile:
Age, education, marital status, years of business experience.

Section B – Microfinance Details:
- Loan amount availed (₹)
- Years of membership in SHG/MFI
- Number of loans received
- Training programs attended

Section C – Business Performance:
- Monthly income (categorized: Low / Medium / High)
- Employment created (None / 1–2 / >2)
- Savings after loan repayment (Low / Medium / High)
- Business growth (Yes / No)

7.3 Data Analysis Plan

- Data will be coded and tabulated in SPSS.
- A **cross-tabulation** will be created between *Microfinance Level* and *Performance Level*.
- The **Chi-square test of independence** will be applied to test the hypothesis.

7.4 Statistical Test

χ2=∑ (O−E) 2E\chi^2 = \sum \frac{ (O-E) ^2}{E}χ2=∑E (O−E) 2
Where,
O = Observed frequency,
E = Expected frequency.

Decision rule:
If **$p < 0.05$**, reject H_0 → significant association exists.
If **$p \geq 0.05$**, accept H_0 → no significant association.
Effect Size: Cramer's V will be used to determine the strength of association.

Interpretation:
- 0.10 = Weak
- 0.30 = Moderate
- 0.50 = Strong

8. Expected Results

It is expected that women entrepreneurs with **higher microfinance access** (larger loan size, longer duration, training exposure) will demonstrate **better performance** (higher income, more savings, employment generation). The Chi-square analysis is expected to show a **statistically significant association** between microfinance level and performance.

9. Limitations

- The study is limited to selected areas of Ernakulam district.
- Data is self-reported and may include response bias.
- Chi-square only tests association, not causation.

10. Conclusion

The study aims to highlight the role of microfinance in empowering women and enhancing small-scale entrepreneurship in Ernakulam. By applying the **Chisquare test**, the research will identify whether microfinance exposure levels are statistically associated with improved business performance.

Findings are expected to assist policymakers, financial institutions, and women's organizations like Kudumbashree in refining credit schemes and training programs to further strengthen women's economic participation.

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