

FINANCIAL MANAGEMENT AND EFFICIENCY: A COMPARATIVE ANALYSIS OF MICROFINANCE INSTITUTIONS AND COMMERCIAL BANKS IN INDIA

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Microfinance in India is often seen as a vital tool for promoting economic development, reducing poverty, and fostering financial inclusion. However, despite the vast number of villages in India, only a relatively small fraction, approximately 50,000, have access to financial services. India also holds the unfortunate distinction of having the highest number of unbanked households. This paper aims to investigate the performance and efficiency of microfinance institutions, especially in light of challenges like the Andhra crisis and concerns about mission drift. To conduct this study, we have selected a sample of microfinance institutions in India, chosen based on their ratings from the Microfinance Information Exchange (MIX). We assess the performance of these selected microfinance institutions and compare their performance to that of commercial banks in India using statistical tools. Financial sustainability of a microfinance institution is evaluated based on its financial records and adherence to recognized accounting practices as suggested by Meyer (2002). Data on the microfinance institutions have been gathered from the Microfinance Information Exchange (MIX), where some of the MFIs have begun reporting their financial data. MIX classifies MFIs based on various parameters such as the level of disclosure and financial indicators, subsequently assigning ratings. Out of the 88 MFIs in India reported on MIX, we have chosen 24 as our sample, specifically focusing on those with a five-star rating from MIX. We analyze the financial performance of these MFIs, comparing their financial parameters to those of commercial banks. The key financial performance indicators considered include financial structure, profitability, and efficiency. This study falls within the purview of financial management, providing insights into how microfinance institutions in India perform in relation to commercial banks in various financial aspects.

Keywords: *Microfinance, Financial Inclusion, Performance, Efficiency, Commercial Banks*

INTRODUCTION

The adoption of an integrated risk philosophy necessitates comprehensive training in the discipline of risk management, with a particular emphasis on the imperative requirement for dedicated institutions and proficient professionals in this domain. Organizations such as the Institute of Internal Auditors, India, have taken steps to implement Enterprise Risk Management (ERM). However, the current emphasis of these programs primarily revolves around audit and internal controls, rather than effectively integrating ERM into overall corporate strategy. The successful implementation of Enterprise-wide Risk Management (EWRM) solutions requires a significant allocation of resources towards infrastructure development, with a particular emphasis on expensive information technology (IT) solutions. It is crucial for the effective implementation of Enterprise-Wide Risk Management (EWRM) to establish a connection between risk management and the broader corporate objectives. The concept of corporate governance, which is widely discussed in contemporary business organizations, is considered an essential requirement for the successful implementation of Enterprise-wide Risk Management (EWRM). Enhancing risk communication inside corporate entities is crucial in order to effectively leverage and foster trust in the field of risk management. The effective dissemination of information on organizational hazards is of paramount importance in cultivating risk tolerance, especially within the ranks of lower-level management. While the focus has typically been on operational hazards, it is important to consider the existence of other risks that may be much more significant. Therefore, there exists an urgent requirement for a paradigm shift in the methodology employed by organizations when conducting risk assessments.

In order to ensure the success of Enterprise-wide Risk Management (EWRM), it is imperative that functional heads are sufficiently motivated to assume their risk management duties. This can be achieved by potentially offering incentives as a means of motivation. The designation of a risk champion, commonly referred to as the Chief Risk Officer (CRO), holds significant importance. It is recommended that organizations exclusively undertake the implementation of comprehensive training programs pertaining to several facets of risk management. The effective utilization of Enterprise-wide Risk Management (EWRM) has the capacity to confer a strategic competitive advantage by discerning and implementing targeted measures that improve performance and optimize risk management. Furthermore, it has the potential to impact corporate strategy through the identification of previously unrecognized possibilities and hazards, leading to necessary adjustments. It is crucial to adopt Enterprise Risk Management (ERM) as a strategic endeavor, rather than treating it as a mere routine business function. There should be an encouragement for the promotion of information technology (IT) utilization in order to automate risk management procedures. Corporate websites can serve as effective platforms for expressing commitment and addressing concerns pertaining to enterprise-wide risk management (EWRM), thereby conveying a good message to stakeholders.

Microfinance plays a crucial role in facilitating and promoting economic development and enhancing financial inclusion within the Indian context. The organization has gained significant recognition for its efforts in promoting gender equality and addressing socio-economic issues associated with poverty. Microfinance institutions play a crucial role in facilitating the provision of financial services and credit to underserved and financially excluded segments of the population, so effectively advancing the goal of financial inclusion. These organizations offer loans that specifically address the requirements of individuals with low incomes using a range of strategies. These strategies include providing working capital for entrepreneurial ventures, paying fundamental expenses like sustenance, clothes, housing, and education, and serving as viable alternatives to conventional moneylenders.

In addition to microfinance institutions, a range of enterprises such as banks, insurance firms, agricultural cooperatives, and dairy cooperatives play a significant role in facilitating the provision of microcredit. The fundamental elements of microfinance encompass various financial services such as deposits, loans, payment services, money transfers, and insurance, all designed to cater to the specific needs of those facing economic disadvantages. Despite the presence of a well-established formal financial system in India, a significant segment of the population continues to lack access to banking services. Consequently, India currently holds the distinction of having the second-largest unbanked population worldwide, trailing only China in this regard. Within this particular environment, the primary objective of the microfinance sector is to enhance the quality of life for individuals belonging to low-income households, while also facilitating the provision of financial services to parts of society that have been marginalized.

Microfinance institutions in India employ diverse service models, tailoring their offerings to cater to specific target sectors, thereby significantly augmenting the economic welfare of their clientele. There are multiple variables that contribute to the low accessibility of formal financial services for a substantial proportion of the Indian population. Banks and microfinance institutions encounter significant fixed and variable expenses in their efforts to cater to low-income customers, resulting in elevated transaction costs. The potential reduction of costs through economies of scale is hindered by the challenges posed by the absence of incentives for cost recovery and profit. The establishment of bank branches in remote locations is financially unfeasible due to the combination of low transaction volumes and high operational expenses, hence failing to adequately address the financial requirements of the rural population. Financial illiteracy is a prevalent issue among those with low income, resulting in a lack of understanding regarding the financial products and services provided by microfinance organizations. This lack of information poses significant challenges for this demographic in effectively comprehending and engaging with such financial offerings. The presence of collateral requirements presents a significant obstacle for low-income households in obtaining credit, since the ability to provide the necessary collateral proves to be a formidable barrier. The constrained accessibility of conventional financial institutions compels rural low-income populations to resort to moneylenders for urgent lending, thereby incurring exorbitant

interest rates that may ensnare individuals in a cycle of indebtedness. The diverse entities operating within the microfinance industry might be categorized in the following manner:

1. The SHG-Bank Linkage Model accounts for roughly 58% of the total outstanding loan portfolio.
2. Non-Banking Finance Companies (NBFCs) constitute around 34% of the total outstanding loan portfolio.
3. The "Others" group encompasses trusts, societies, and other entities, which collectively constitute 8% of the total outstanding loan portfolio.

LITERATURE REVIEW

Author (Year)	Main Findings
Alain de Crombrughe, Michael Tenikue, and Julie Sureda (2007)	Explored three key aspects of sustainability for microfinance institutions in India: 1) Loan repayment, 2) Financial self-sustainability (operational self-sustainability), and 3) Efficient cost control/resource utilization.
Rajarshi Ghosh (2005)	Examined the role of microfinance in empowering women and alleviating poverty in India. Recognized microfinance as a crucial tool for creating self-employment opportunities for low-income rural populations.
Pankaj K Agarwal and S.K. Sinha (2010)	Emphasized the significance of the sustainability of microfinance institutions for achieving their objectives through strong financial performance. Explored various players in the microfinance sector, from not-for-profit organizations to commercial banks with different objectives.
Jayasheela, Dinesha.P.T, and V.Basil Hans (2008)	Explored the contribution of microfinance in empowering people and providing sustainable credit access to rural low-income populations. Analyzed the opportunities available to microfinance institutions in meeting the growing demand for credit in areas where formal sources are lacking.
Naveen K. Shetty and Dr. Veerashekharappa (2009)	Examined the importance of microfinance in promoting financial inclusion in India. Investigated the impact of the growing gap

	between demand and supply of financial services, leading to financial exclusion for a significant population.
Reeta Rautela, Gaurav Pant, Dr. Swati Anand, and Deepika Sharma	Explored the evolution of microfinance institutions in India, positioning them as tools for local and global development. Highlighted the critical role of microfinance in poverty alleviation and rural development, considering India's rural population and poverty levels.
Michael Tucker and Gerald Miles	Analyzed the financial performance of self-sufficient microfinance institutions and compared them with regional commercial banks using selected financial ratios. Revealed that self-sufficient microfinance institutions demonstrate strong performance in terms of Return on Assets (ROA) and Return on Equity (ROE).
Purna Chandra Parida and Anushree Sinha (2010)	Investigated the performance and sustainability of self-help groups (SHGs) in India. Found that SHG programs are effective tools for addressing socio-economic issues. Performance and sustainability of SHGs vary based on factors such as income-generating activities and the gender composition of their members.
Blaine Stephens and Hind Tazi (2006)	Focused on the performance of the microfinance sector in South Asia and globally, highlighting significant outreach in South Asia, with key players like Grameen Bank, ASA, and BRAC. Explored the evolution of the microfinance sector, including micro-loans and self-help group programs designed to reach a vast segment of the impoverished population.
R. Srinivasan and M. S. Sriram	Explored diverse perspectives from individuals associated with various microfinance institutions in India. Recognized microfinance as an effective tool for promoting financial inclusion and fighting poverty. Discussed various microfinance models in India and their contributions to growth and sustainability, as well as government policies and regulatory frameworks.

Study Objectives:

- To assess and juxtapose the financial performance of microfinance institutions (MFIs) in India in comparison with that of commercial banks.

- To scrutinize the financial framework of MFIs in India.
- To gauge the profitability and efficiency of MFIs operating in India.

Hypothesis: The study will test the following hypotheses:

Null Hypothesis (H0): There is no significant difference in the financial performance of microfinance institutions (MFIs) and commercial banks in India.

Alternative Hypothesis (H1): There is a significant difference in the financial performance of microfinance institutions (MFIs) and commercial banks in India.

Scope of the Study: This research confines its focus to microfinance institutions in India, with a specific emphasis on a sample derived from the Microfinance Information Exchange (MIX). The selection of microfinance institutions was restricted to those that received a five-star rating based on criteria such as disclosure levels, the quality of disclosure, and financial parameters as evaluated by MIX. The analysis is centered on the performance of these chosen MFIs in India. It is essential to note that the study excludes smaller MFIs in India and those located in various geographical regions across the globe.

Research Methodology: Data Sources: This study relies on secondary data collected from various sources, encompassing research papers, academic journals, articles, annual reports of companies, data from the Microfinance Information Exchange (MIX), and information obtained from several websites.

Methods: The methodology of this study involves the compilation of secondary data from a wide array of research articles and journals. Subsequently, the gathered secondary data is subjected to analysis using statistical tools, enabling the formulation of conclusions based on the results obtained.

Data Collection and Analysis Techniques: The analysis incorporates the application of diverse statistical tools and techniques, including one-way ANOVA. This method is employed to ascertain whether there is a significant difference in the performance between MFIs and commercial banks, spanning both private and public sector banks.

RESULTS

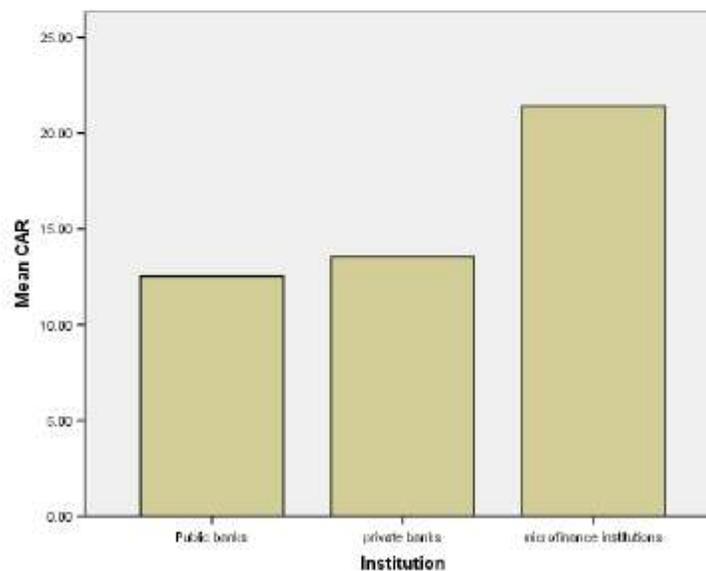
Assessment of the Performance of Microfinance Institutions in Comparison to Commercial Banks in India

The capital adequacy ratio serves as a metric for assessing the capital of a bank. The metric is denoted as a proportion of a financial institution's credit exposures that have been adjusted for risk. The aforementioned ratio is commonly referred to as the capital to risk weighted assets ratio. The calculation of the capital adequacy ratio is as follows:

$$CAR = \frac{\text{Tier One Capital} + \text{Tier Two Capital}}{\text{Risk Weighted Assets}}$$

CAR					
	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	1063.602	2	531.801	6.478	.003
Within Groups	4843.373	59	82.091		
Total	5906.975	61			

ANOVA output of CAR



Comparison of CAR for banks vs. microfinance institutions

A notable disparity exists in the means of the capital adequacy ratio, with statistical significance observed at a 5% level. Consequently, the alternative hypothesis is deemed to be accepted. In India, banks are obligated to adhere to a capital adequacy ratio (CAR) of 9%, while non-banking financial companies (NBFCs) are expected to maintain a CAR of 12%. However, as of March 2011, the CAR for NBFCs has been increased to 15%. According to reports, over 45% of microfinance institutions (MFIs) possess a capital adequacy ratio (CAR) exceeding 20%, while 25% of MFIs have a CAR beyond 15%. It is worth noting that a minimum CAR of 15% is mandated for microfinance institutions. Microfinance institutions require a higher Capital Adequacy Ratio (CAR) due to the necessity of having a sufficient amount of capital to absorb potential losses in the event of default.

Debt Equity Ratio:

The debt equity ratio is utilized as a metric to assess the financial leverage of a corporation. The debt equity ratio, which is obtained by dividing a company's long-term debt by its shareholder

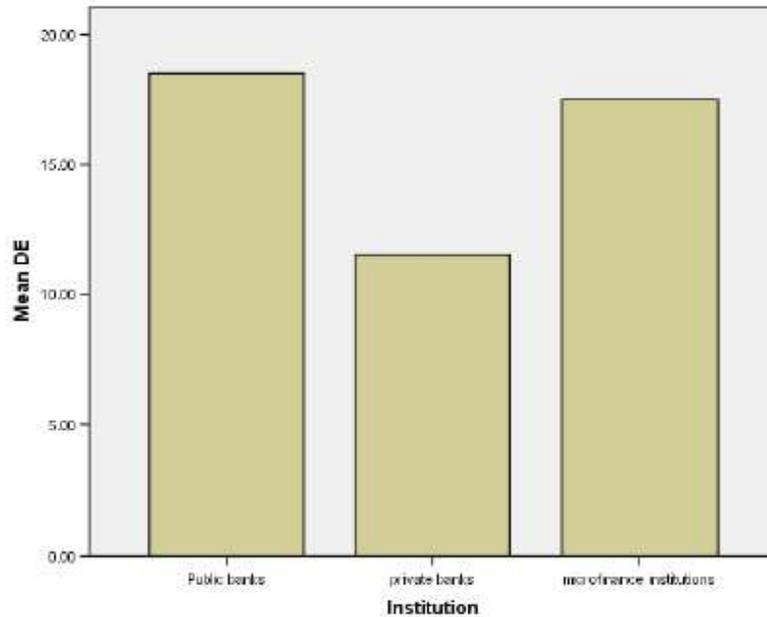
equity, indicates a higher level of risk associated with an investment. This phenomenon can be attributed to the augmented interest payments necessitated by the company's elevated debt levels.

**ANOVA
DE**

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	509.128	2	254.564	.652	.524
Within Groups	23019.519	59	390.161		
Total	23528.647	61			

T

ANOVA output of debt equity ratio



The results indicate that, based on a 5% level of significance, there is no statistically significant disparity in means. Therefore, it may be inferred that the debt equity ratios of public and private sector banks, as well as microfinance organizations, do not display substantial variances, thereby providing support for the null hypothesis. The graph depicts that microfinance firms exhibit elevated debt equity ratios as a result of their growth-oriented characteristics. Socially-oriented microfinance institutions predominantly depend on grants and donations as their primary source of funding, with limited access to significant capital resources. As a result, microfinance institutions (MFIs) that prioritize growth frequently pursue funding from financial markets and benefit from favorable access to commercial debt funds, resulting in elevated debt equity ratios. Public banks also exhibit higher ratios, as they derive advantages from convenient access to borrowing from the Central bank and capital market funds. On the contrary, private sector banks,

which necessitate favorable ratings to get access to capital markets, exhibit lower debt-to-equity ratios in comparison to both public sector banks and microfinance organizations.

Profitability:

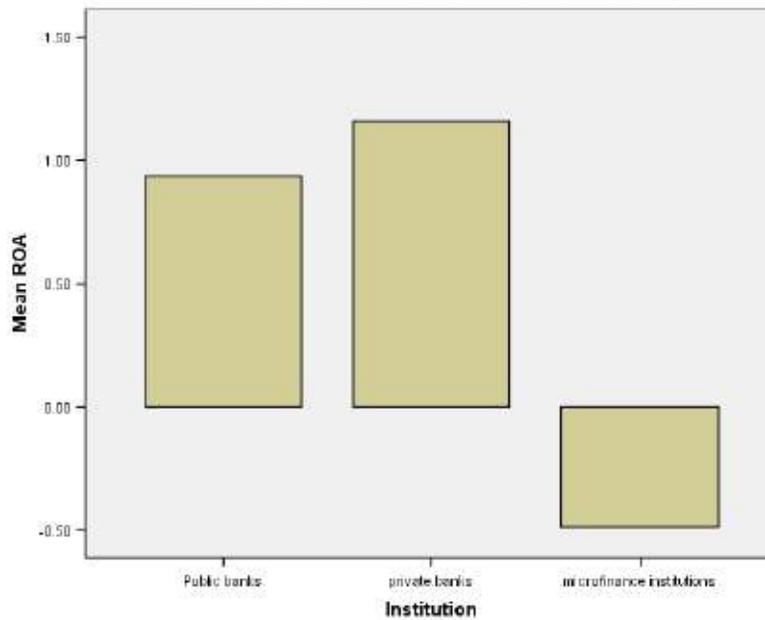
- Return on assets Return on Assets (ROA) measures how effectively management generates earnings from their investments, serving as an indicator of a company's profitability relative to its total assets. This financial measure is represented as a percentage and is alternatively known as "return on investments."

ANOVA

ROA

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	32.403	2	16.201	.192	.826
Within Groups	4642.656	55	84.412		
Total	4675.059	57			

ANOVA output of return on asset ratio



Comparison of return on asset ratio for banks vs. MFIs

At a significance level of 5%, there is no statistically significant difference observed in the average Return on Assets (ROA) between commercial banks and microfinance institutions. Consequently, the null hypothesis is deemed to be accepted. According to Sa-Dhan's findings, the median Return on Assets (ROA) and Return on Equity (ROE) across the 264 Microfinance Institutions (MFIs) in their sample are roughly 1.6% and 11.5% respectively. In contrast, it can be observed that the top ten microfinance institutions demonstrate comparatively elevated median return on assets (ROA)

and return on equity (ROE) figures, approximately amounting to 4.3% and 29.5% correspondingly. On the other hand, it is worth noting that the microfinance institutions with the smallest scale exhibit unfavorable median return on assets (ROA) and return on equity (ROE) metrics, indicating their lack of financial viability and their current state of operating at a deficit. In order to attract private capital and effectively accomplish their objective of poverty reduction, microfinance institutions must endeavor to achieve higher returns on assets (ROA) and returns on equity (ROE). In addition, the relatively smaller asset base of non-commercial banks has a detrimental effect on their profitability. Commercial banks are able to achieve better return on assets (ROA) due to their ability to accept deposits, which in turn leads to a rise in their overall income. Based on the findings of ACCION's audit, it has been determined that the ideal range for Return on Assets (ROA) is above 3% (> 3%). This highlights the need for Indian microfinance institutions to enhance their profitability.

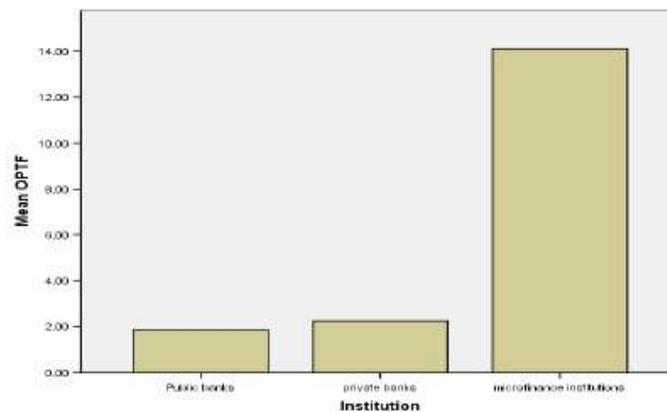
Efficiency:

- Operating expenses to assets The expense ratio, also referred to as the management expense ratio, is determined by dividing operating expenses by total assets. A lower ratio indicates that the institution is more profitable and demonstrates its effectiveness in efficiently managing costs.

ANOVA
OPTF

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	2059.637	2	1029.819	17.752	.000
Within Groups	3190.596	55	58.011		
Total	5250.233	57			

ANOVA output of operating expense/total asset ratio



Comparison of operating expense/total asset ratio for banks vs. MFIs

There exists a notable disparity in the ratio of operating expenses to total assets between commercial banks and MFIs, with statistical significance at a 5% level. Consequently, the null hypothesis is rejected. Upon conducting a comparative analysis between microfinance institutions (MFIs) and commercial banks, it becomes apparent that MFIs exhibit relatively greater operational

expenses in relation to their total funds. The observed disparity can be ascribed to multiple causes, encompassing the financial investments made by MFIs in training their personnel and the educational initiatives targeted at borrowers.

Furthermore, the considerable wealth held by commercial banks confers them with a distinct advantage, leading to a favorable effect on their ratio of operating expenses to total assets. In addition, the service delivery methodology utilized by microfinance institutions (MFIs), which entails providing services directly to borrowers at their residences, contributes to increased operational expenses in comparison to those incurred by commercial banks. On the other hand, commercial banks are able to efficiently cover their expenses as a result of their unique operational framework and their handling of higher loan amounts, hence diminishing their transaction costs.

RECOMMENDATIONS

1. **Impact Assessment Studies:**

- Conduct rigorous impact assessments to evaluate the effectiveness of microfinance institutions in alleviating poverty and promoting financial inclusion. This could involve both quantitative and qualitative assessments of changes in the living conditions of borrowers.

2. **Interest Rates and Financial Sustainability:**

- Investigate the relationship between high interest rates and the financial sustainability of microfinance institutions. Examine how interest rates affect the ability of borrowers to repay loans and the profitability of microfinance institutions.

3. **Risk Management:**

- Analyze the risk management practices of microfinance institutions and their impact on sustainability. This could involve assessing the effectiveness of risk assessment, loan portfolio diversification, and default management strategies.

4. **Transparency and Governance:**

- Study the impact of transparency and governance mechanisms on the performance of microfinance institutions. Investigate how transparency in interest rates, loan terms, and governance structures can enhance trust and accountability.

5. **Social Impact and Client Protection:**

- Research the social impact of microfinance beyond just financial outcomes. Assess how microfinance institutions can better protect clients from coercive lending practices and over-indebtedness.

6. **Regulatory Environment:**

- Examine the regulatory environment for microfinance institutions. Investigate how different regulatory frameworks influence their performance and sustainability.

7. **Technology and Innovation:**

- Explore the role of technology and innovation in enhancing the outreach and efficiency of microfinance institutions. This could include the study of digital lending platforms and mobile banking.

8. **Gender Inclusion:**

- Investigate the role of microfinance institutions in promoting gender equality and women's empowerment. Assess how programs specifically targeted at women impact their economic and social well-being.

9. **Sustainability Models:**

- Analyze different sustainability models, such as the Grameen model or community-based microfinance, and their suitability in different contexts. Compare the pros and cons of various models.

10. **Regional and Cultural Variations:**

- Examine how the performance and sustainability of microfinance institutions vary across different regions and cultures. Cultural factors, local customs, and economic conditions can all play a significant role.

CONCLUSION

The utilization of microfinance has been crucial in the alleviation of poverty, the enhancement of women's agency, and the facilitation of financial inclusivity. Nevertheless, India exhibits a significant disparity in terms of financial inclusion, as it harbors the largest number of households, approximately 145 million, that are excluded from the conventional banking system. Moreover, numerous villages in India face restricted availability of financial services. This situation, however, is not unique to India, as the global scenario mirrors it to a considerable extent. Approximately 2.5 billion adults across the globe lack access to formal banking services. Within this particular demographic of individuals lacking access to banking services, a substantial portion of approximately 2.2 billion people may be found residing in regions such as Africa, Asia, Latin America, and the Middle East. This phenomenon offers a notable prospect for the microfinance industry to expand its provision of credit to individuals with low incomes, therefore making a valuable contribution to the alleviation of poverty and the advancement of national development. The microfinance sector has witnessed considerable expansion; yet, several institutions within this sector encounter a significant obstacle in the form of insufficient capital. In order to effectively tackle this matter, it is imperative to maintain ongoing endeavors aimed at broadening the range of funding sources, enticing foreign investments, enhancing operational efficiency, and guaranteeing the financial viability of microfinance organizations. Smaller microfinance institutions can enhance their performance by emulating the business models, policies, and

practices employed by the top 10 institutions, so facilitating the expansion of their outreach and ensuring long-term viability.

Several positive trends can be observed in the sector, such as the active promotion of awareness and the implementation of initiatives by banks. Additionally, there is a notable commitment from the government to support and facilitate the development of the sector. Another significant trend is the transformation of microfinance institutions that were formerly reliant on non-governmental organizations (NGOs) into Non-Banking Financial Company-Microfinance Institutions (NBFC-MFIs). Despite the persistent obstacles, the microfinance industry is witnessing the emergence of creative solutions aimed at tackling these concerns. The government assumes a pivotal role in this context, necessitating a prioritization of macroeconomic stability, the liberalization of interest rates, exploration of alternative funding avenues, mobilization of savings, and the establishment of institutional frameworks for fostering opportunities. The establishment of a robust legislative and regulatory framework is crucial in facilitating the expansion of the microfinance industry, in line with the overriding objectives of poverty alleviation and national progress. The performance of microfinance institutions has experienced notable enhancements, underscoring the importance of implementing robust regulatory and governance measures to ensure enduring poverty eradication and financial inclusion. The achievement of the government's long-term goals of comprehensive financial inclusion and poverty reduction necessitates the collaboration of banks, government agencies, stakeholders such as funders and corporations, and non-governmental organizations.

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