"Financial Inclusion and Economic Development in Rural Areas of Rajasthan"

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ABSTRACT

Financial inclusion has emerged as a crucial driver of sustainable economic development, especially in rural areas where access to formal financial services remains limited. In the context of Rajasthan, a state marked by vast geographical diversity, socio-economic disparities, and a predominantly agrarian economy, financial inclusion plays a vital role in reducing poverty and fostering growth. This paper explores the relationship between financial inclusion and economic development in rural Rajasthan by examining the penetration of banking services, microfinance, digital payment systems, and government-led financial schemes. It identifies persistent challenges such as low financial literacy, infrastructural constraints, and socio-cultural barriers that hinder the full realization of inclusion efforts. This study examines the relationship between financial inclusion and economic development in the rural communities focusing on banking access credit availability savings behaviour and adoption of digital financial services a descriptive and analytical design was employed collecting data from 410 rural households in Banswara District of Rajasthan using structured questionnaire complimented by secondary data from government reports financial inclusion service and academic literature the sample was selected through a stratified random sampling technique to ensure representation across income levels occupations and gender data were analysed using quantitative methods including descriptive statistics correlation and regression analysis to access the impact of financial inclusion on income employment and entrepreneurial activities the findings reveal a significant positive relationship between financial access and economic development highlighting the critical role of bank accounts credit savings and digital banking in enhancing rural livelihood and fostering sustainable economic growth.

Keywords: financial inclusion, rural development, credit, banking, agriculture.

INTRODUCTION:

Rajasthan, the largest state in India by area, is characterized by its vast rural expanse, where approximately 75% of the population depends on agriculture and allied activities for their livelihood. Rural Rajasthan faces distinctive challenges including arid climatic conditions, low agricultural productivity, infrastructural gaps, and persistent socio-economic disparities. Despite these obstacles, the state's overall progress and prosperity are intrinsically linked to the economic well-being and development of its rural populace.



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In rural areas, agriculture remains the primary source of livelihood, and access to formal credit is crucial for enhancing productivity. Farmers often require funds for purchasing seeds, fertilizers, irrigation equipment, and machinery. Without access to institutional credit, they rely heavily on informal moneylenders, which can lead to cycles of debt and poverty. Financial inclusion initiatives, such as microfinance programs, rural banking, and government schemes like the Pradhan Mantri Jan Dhan Yojana (PMJDY) in India, have significantly improved access to formal credit. These programs enable farmers to obtain loans at reasonable interest rates, invest in modern farming techniques, and increase agricultural output. Additionally, access to savings accounts allows households to store funds securely and plan for future expenditures, reducing financial vulnerability and dependence on high- interest informal lending sources.

Beyond agriculture, financial inclusion also supports the growth of small businesses and rural entrepreneurship. Many rural households diversify their income by engaging in small-scale enterprises such as poultry farming, handicrafts, retail shops, and local services. Access to credit and banking services enables entrepreneurs to invest in raw materials, tools, and marketing activities, enhancing business growth and income generation. Moreover, savings accounts and digital financial services allow entrepreneurs to manage cash flows efficiently and plan for expansion. The multiplier effect of these activities can stimulate the local economy by creating employment opportunities and increasing the demand for goods and services. In this way, financial inclusion contributes not only to individual prosperity but also to broader rural economic development.

The adoption of digital financial services has further revolutionized financial inclusion in rural areas. Mobile banking, online transfers, and Unified Payments Interface (UPI) platforms have made it easier for rural households to conduct financial transactions without the need to visit distant bank branches. Digital payments also enhance transparency and reduce the risks associated with cash-based transactions. Additionally, direct benefit transfers of government subsidies and social welfare schemes through digital channels ensure that funds reach intended beneficiaries efficiently, thereby reducing leakages and improving access to resources. However, the effectiveness of digital financial inclusion depends on the availability of infrastructure such as internet connectivity, smartphones, and digital literacy programs. Training and awareness initiatives are therefore essential to ensure that rural populations can fully utilize these services.

The impact of financial inclusion on rural economic development can also be measured through indicators such as income growth, employment generation, and poverty reduction. Empirical studies have established a positive correlation between access to banking services, credit, and savings and higher household income levels. Households with access to formal financial systems are better able to invest in productive activities, manage financial risks, and plan for future needs, leading to improved economic outcomes. Employment generation is another critical aspect, as financial inclusion enables both self-employment through entrepreneurial ventures and wage employment through increased economic activity in local markets. By fostering economic participation, financial inclusion contributes to reducing income inequality and promoting social stability in rural communities.

BACKGROUND:

Economic development in Rajasthan's rural areas has been historically constrained by limited access to credit, low banking penetration, and social and geographic barriers. Traditional dependence on rain-fed agriculture, coupled with frequent droughts, has led to fluctuating incomes and recurring cycles of poverty. Over the past decade, financial inclusion has gained prominence as a vital policy tool to address these challenges by enabling rural households to participate in the formal economy through access to banking, credit, and insurance services.

Meanwhile, the adoption of digital banking platforms-including UPI, mobile banking, and Aadhaar-enabled payment systems has expanded financial services to even remote corners, driving down transaction costs and enabling direct benefit transfers. This shift has also empowered women by providing them safer and more accessible means to manage finances and access microloans.

OBJECTIVES OF THE STUDY:

The present study focuses on exploring the relationship between financial inclusion and economic development in rural Rajasthan. The central objectives are:

- To assess the current status and reach of financial inclusion initiatives in rural Rajasthan, analysing banking penetration, credit uptake, and digital transaction adoption.
- To examine the impact of financial inclusion on socio-economic indicators such as poverty alleviation, livelihood diversification, entrepreneurship development, and financial security among rural households.
- To identify the key challenges-such as infrastructural gaps, low financial literacy, and socio-cultural barriers-that impede financial inclusion and sustained rural growth.

IMPORTANCE OF THE RESEARCH:

Financial inclusion is recognized as a "key driver for economic growth, particularly in rural areas where access to financial services is limited". The need to empower rural communities through inclusive financial mechanisms is underscored by Rajasthan's persistently high rural poverty and unemployment rates unemployment in 2023 was reported at 26.4%, the second highest in India. Barriers such as digital illiteracy, unreliable connectivity, and cultural mistrust of formal institutions remain prevalent, particularly among women and marginalized groups.

This research holds significance for policymakers, financial institutions, NGOs, and rural development stakeholders by providing a comprehensive analysis of the effectiveness of various financial inclusion schemes and their tangible outcomes in improving rural livelihoods. It aims to document both successful models such as SHG-led microfinance and digital banking agents as well as persistent challenges, to inform the design of more inclusive, accessible, and impactful financial systems.

Furthermore, by systematically examining the interplay between financial inclusion and broader economic development metrics such as employment generation, poverty reduction, and women's empowerment this study contributes valuable insights for achieving the state's sustainable growth objectives and reducing rural-urban disparities. The ultimate goal is to chart a roadmap for leveraging financial inclusion as a transformative force for rural development in Rajasthan.

LITERATURE REVIEW:

The relationship between financial inclusion and rural economic development in Rajasthan has attracted attention from researchers, policymakers, and development agencies, given Rajasthan's diverse socio-economic landscape and significant rural population. Early research highlighted that social and educational backwardness, especially among the state's tribal and marginalized groups, perpetuated financial exclusion and kept rural households dependent on informal credit sources and unregulated moneylenders. Traditional barriers such as low literacy, limited banking infrastructure, and cultural factors hindered access to formal financial services for many years.

Recent research emphasizes the transformative role of microfinance and self-help group (SHG) bank linkages, which have significantly contributed to women's empowerment and the self-reliance of the rural poor. The spread of digital banking and mobile-based financial technologies is further bridging the urban-rural divide, especially for young people and entrepreneurs. However, studies also underscore persistent challenges such as unreliable connectivity, cyber risk perceptions, infrastructural gaps, and the continued dominance of cash-based economic activity in interior regions.

Policy-focused literature agrees that financial inclusion is pivotal for sustainable rural development in Rajasthan through its promotion of savings, investment, entrepreneurship, and risk management. However, researchers caution that real gains in poverty alleviation and livelihood improvement are achieved only when financial inclusion is integrated with systematic efforts in building infrastructure, improving education, and ensuring the effective implementation of welfare schemes. The literature recommends a deeper focus on financial literacy programs, robust digital infrastructure, targeted policy interventions, and community-driven models as prerequisites for long-term, inclusive economic growth in rural Rajasthan

Ruchi (2022) the study aims to construct a financial inclusion index for rural areas to make a bank group-wise comparative analysis of rural financial inclusionThe data is taken at four data points: 2005, 2010, 2015, and 2019. The scope of the study is confined to scheduled commercial banks.

Iryna et al., (2021) Financial inclusion is a means to make full use of financial services, which stimulates the introduction of innovation, mobilization of savings and investment support, and thus contributes to the economic development of territories. The purpose of the study is to substantiate scientific and practical approaches to determining the role and place of financial

inclusion in sustainable development of rural areas. The state of financial inclusion in rural areas has been assessed having applied the statistical-economic and calculation-constructive methods.

Pravin (2018) Financial inclusion is becoming the success mantra in achieving the inclusive growth. Every country wants to connect its people to the mainstream banking. Studies have proved that connecting unbanked people and households to the mainstream banking helps both society and economy. Financial inclusion should not turn out to be a mere number game.

Sharma et al. (2011). An important question raised in the literature is whether development leads to an all-inclusive financial system. This paper attempts to examine the relationship between financial inclusion and development by empirically identifying country specific factors that are associated with the level of financial inclusion.

RESEARCH METHODOLOGY:

The study adopts a descriptive and analytical research design to examine the relationship between financial inclusion and economic development in rural areas of Banswara District of Rajasthan. Data will be collected through both primary and secondary sources. Primary data will be obtained using structured questionnaires administered to rural households and local entrepreneurs, focusing on access to banking services, credit usage, savings behavior, and economic outcomes. Secondary data will be gathered from government reports, financial inclusion surveys, and academic journals to provide a broader perspective and validate the findings. A sample size of 410 households has been selected using a stratified random sampling technique to ensure representation across different income levels, occupations, and gender. The collected data will be analyzed using quantitative methods, including descriptive statistics to evaluate access to financial services and correlation and regression analysis to determine the impact of financial inclusion on economic indicators such as income, employment, and entrepreneurship. The study also ensures confidentiality and voluntary participation of respondents, and informed consent will be obtained before data collection.

DATA ANALYSIS:

Table 1: Age of Respondents

Age Group (Years)	Number of Respondents	Percentage (%)
18–25	60	14.6
26–35	120	29.3
36–45	100	24.4
46–55	70	17.1
56 and above	60	14.6
Total	410	100

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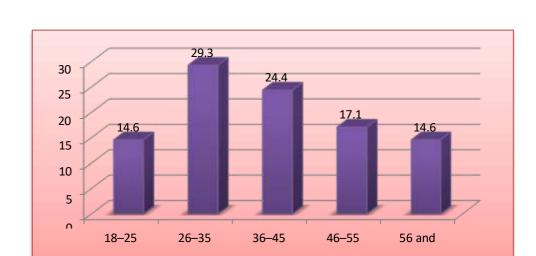


Figure 1: Age of Respondents

The age distribution of respondents shows that the majority of the rural population surveyed belongs to the 26–35 years age group, accounting for 29.3% of the total respondents. This indicates that a significant portion of the rural workforce is young and potentially active in economic activities such as agriculture, small businesses, or wage labor. The 36-45 years age group constitutes 24.4%, followed by the 46–55 years group at 17.1%, suggesting a substantial presence of middle-aged adults who are likely to have established financial habits and responsibilities. Both the youngest (18–25 years) and the oldest (56 years and above) age groups represent 14.6% each, indicating that younger adults are beginning to participate in economic activities while older adults may have limited engagement with formal financial services.

Table 2: Occupation of Respondents

Occupation	Number of Respondents	Percentage (%)
Agriculture/Farming	180	43.9
Small Business	80	19.5
Wage Labor	90	22.0
Service/Other Jobs	60	14.6
Total	410	100

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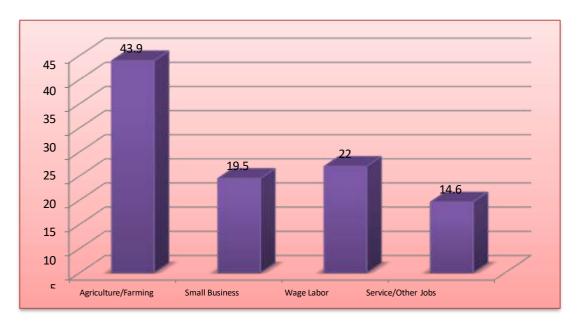


Figure 2: Occupation of Respondents

The occupational distribution of respondents indicates that the majority of the rural population surveyed is engaged in agriculture and farming, accounting for 43.9% of the total respondents. This highlights the continued dependence of rural communities on agriculture as a primary source of livelihood. Wage labor constitutes the second-largest group at 22%, reflecting the presence of individuals who rely on daily or seasonal work for income, often in construction, agriculture, or other informal sectors. Small business owners make up 19.5% of respondents, showing a growing trend of entrepreneurship and local trade in rural areas, which can benefit significantly from access to financial services. Finally, respondents engaged in service or other jobs account for 14.6%, indicating a smaller proportion of the rural workforce employed in organized or formal sectors.

Table 3: Access to Banking Services

Banking Access Indicators	Respondents (Yes)	Respondents (No)	Percentage with Access (%)
Possess a Bank Account	370	40	90.2
Have Savings Account	340	70	82.9
Have Access to Credit/Loan	220	190	53.7
Use Digital Banking/UPI	250	160	61.0

The data on banking access indicates that a large majority of rural respondents have a bank account, with 90.2% reporting ownership, reflecting the success of initiatives like the Pradhan Mantri Jan Dhan Yojana (PMJDY) in promoting financial inclusion. Similarly, 82.9% of

respondents have a savings account, showing that most rural households are engaging in formal savings practices, which can provide financial security and facilitate investment in incomegenerating activities. However, access to credit or loans is lower, at 53.7%, suggesting that nearly half of the respondents still face challenges in obtaining formal financial support for agriculture, business, or personal needs. The use of digital banking/UPI stands at 61%, indicating moderate adoption of technology-based financial services in rural areas, though a significant portion of the population remains reliant on traditional banking or cash transactions.

Table 4: Impact of Financial Inclusion on Income

Variable	Correlation Coefficient (r)	Significance (p-value)
Bank Account Ownership – Income	0.62	0.001
Credit Access – Income	0.55	0.002
Savings Account – Income	0.48	0.005
Digital Banking – Income	0.50	0.004

The correlation analysis demonstrates a positive relationship between financial inclusion indicators and rural household income. Bank account ownership shows a strong positive correlation (r = 0.62, p = 0.001) with income, indicating that individuals with bank accounts are more likely to have higher earnings, possibly due to easier access to savings, credit, and government subsidies. Access to credit also shows a significant positive correlation (r = 0.55, p = 0.002), suggesting that availability of loans enables households to invest in agriculture, small businesses, or other income-generating activities. Similarly, having a savings account (r = 0.48, p = 0.005) and using digital banking/UPI (r = 0.50, p = 0.004) are positively associated with income levels, reflecting the benefits of formal financial tools in enhancing financial stability and economic opportunities.

Table 5: Effect of Financial Inclusion on Economic Development

Independent Variable	Coefficient (β)	Standard Error	t- value	Significance (p- value)
Bank Account Ownership		0.08	4.38	0.001
Access to Credit	0.28	0.09	3.11	0.002
Savings Behavior	0.22	0.07	3.14	0.002
Use of Digital Banking	0.25	0.08	3.12	0.003

The regression analysis indicates that financial inclusion significantly influences economic development in rural areas. Bank account ownership has the highest positive impact ($\beta = 0.35$, p = 0.001), suggesting that having access to a bank account substantially contributes to income



generation, savings, and overall economic empowerment. Access to credit (β = 0.28, p = 0.002) also plays a critical role, enabling households to invest in agricultural activities, small businesses, and other entrepreneurial ventures, thereby promoting local economic growth. Savings behavior (β = 0.22, p = 0.002) and the use of digital banking (β = 0.25, p = 0.003) further enhance economic outcomes by encouraging financial discipline and facilitating efficient transactions. The significance levels (p < 0.01) indicate that all independent variables have a statistically meaningful effect on rural economic development. Collectively, these results demonstrate that improving access to financial services—through bank accounts, credit, savings, and digital platforms—can significantly stimulate income, employment, and overall economic growth in rural communities.

CONCLUSION:

Financial inclusion plays a vital role in promoting economic development in rural areas by providing households and entrepreneurs with access to essential financial services such as banking, credit, savings, and digital transactions. The study held in Banswara District of Rajasthan highlights that increased access to formal financial institutions enables rural populations to invest in productive activities, improve income levels, and reduce dependency on informal moneylenders. Banking services and savings accounts provide financial security, while access to credit empowers individuals to undertake agricultural and entrepreneurial ventures, fostering local economic growth. The adoption of digital financial services further enhances efficiency, transparency, and convenience, allowing rural households to participate more actively in the formal economy. However, challenges such as infrastructural limitations, low financial literacy, gender disparities, and socio-cultural barriers continue to restrict the full potential of financial inclusion in rural regions. Addressing these challenges through targeted awareness programs, digital literacy training, and supportive government policies is essential for maximizing the benefits of financial inclusion. Overall, the study concludes that financial inclusion is a critical tool for sustainable and inclusive rural development. By combining access to financial services with education and policy support, rural communities can achieve enhanced economic resilience, improved livelihoods, and long-term socioeconomic growth.

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