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Impact of Self-Help Groups (SHGs) on Rural Women's Income and Financial Inclusion : A Case Study of Bihar

Abstract : This research explores the transformative role of Self-Help Groups (SHGs) in enhancing the economic status and financial integration of rural women in Bihar, India. Despite the state's historically high levels of rural poverty, the proliferation of the "Jeevika" (Bihar Rural Livelihoods Project) model has emerged as a significant driver for grassroots empowerment.

The study adopts a descriptive and analytical research design, utilizing a sample size of 400 SHG members selected through multi-stage stratified random sampling across four diverse districts of Bihar. Primary data was collected through structured questionnaires and focus group discussions. The research focuses on two primary parameters: absolute change in household income and depth of financial inclusion, measured by bank account operations, credit accessibility, and digital literacy.

Findings indicate a statistically significant increase in the average monthly income of participants, largely attributed to diversified livelihoods such as poultry, goat rearing, and small-scale handicraft production. Furthermore, the study reveals that SHGs have successfully bridged the gap between formal

banking institutions and rural women, with **85%** of respondents reporting regular use of banking services and a marked reduction in dependence on local moneylenders. However, challenges such as limited market linkages and varying levels of digital financial literacy persist. The paper concludes that while SHGs have laid a robust foundation for financial independence, sustained impact requires secondary-level interventions in value-chain management and digital training.

Keywords : SHGs, Bihar, Jeevika, Rural Women, Financial Inclusion, Income Generation, Microfinance.

Introduction : The empowerment of women is a fundamental prerequisite for the holistic development of any nation. In India, particularly in states like Bihar, rural women have traditionally faced systemic marginalization characterized by low literacy rates, limited access to credit, and minimal participation in the formal labor force (World Bank, 2021). The emergence of Self-Help Groups (SHGs) as a micro-finance intervention has revolutionized this landscape. An SHG is a small, voluntary association of rural poor, usually comprising 10 to 20 women, who come together to save small amounts regularly and provide mutual credit to members for productive or emergent needs (**NABARD, 2022**).

In the context of Bihar, the SHG movement gained unprecedented momentum through the Bihar Rural Livelihoods Project (BRLP), popularly known as "Jeevika." Launched with the assistance of the World Bank, Jeevika aimed to create self-managed community institutions that enhance the incomes of the rural poor (Kumar & Singh, 2019). By organizing women into affinity-based groups, the state has transitioned from a model of "charity" to "empowerment," making SHGs the cornerstone of Bihar's rural economy.

The Concept of Financial Inclusion : Financial inclusion refers to the delivery of financial services at affordable costs to sections of disadvantaged and low-income segments of society (RBI, 2023). For rural women in Bihar, financial inclusion was historically hindered by the "collateral gap" and the intimidating nature of formal banking (**Sinha, 2020**). SHGs serve as a financial intermediary, bridging the gap between the "unbankable" rural poor and formal financial institutions through the SHG-Bank Linkage Program (SBLP). This inclusion is not merely about opening a bank account; it involves regular savings, access to credit, insurance, and increasingly, digital financial literacy (**Thorat, 2021**).

Bihar: A Unique Socio-Economic Context : Bihar presents a unique case study for SHG impact. Despite being one of India's fastest-growing states in recent years, it faces challenges such as high population density and seasonal migration of male members, which often leaves women as the *de facto* heads of households (**Government of Bihar, 2023**). Studies suggest that when women in Bihar gain control over financial resources through SHGs, there is a "multiplier effect" on household nutrition, children's education,

and health outcomes (**Pandey & Roberts, 2020**). However, the transition from subsistence-level savings to high-growth entrepreneurship remains a critical area of investigation.

Problem Statement : While the quantitative growth of SHGs in Bihar is commendable with over 10 lakh groups formed under Jeevika the qualitative impact on sustainable income and long-term financial independence requires deeper scrutiny. Many women remain at the "consumption loan" stage rather than moving toward "investment-led" livelihoods (**Dasgupta, 2022**). Furthermore, the gendered digital divide in rural Bihar poses a significant threat to the goal of total financial inclusion in an increasingly cashless economy. There is a need to evaluate whether SHGs are truly transforming women into entrepreneurs or merely providing a temporary safety net against extreme poverty.

Objectives of the Research : The primary objectives of this research paper are:

1. To evaluate the impact of SHG membership on the monthly household income of rural women in Bihar.
2. To assess the extent of financial inclusion achieved through SHG-Bank Linkage, focusing on credit accessibility and digital banking usage.
3. To analyze the shift in decision-making power and socio-economic status of women post-SHG intervention.
4. To identify the systemic bottlenecks that hinder the scaling of SHG-led micro-enterprises in the state.

Hypotheses :

- **H1:** There is a significant positive correlation between the duration of SHG membership and the increase in the annual income of rural households in Bihar.
- **H2:** SHG intervention significantly reduces the dependence of rural women on informal, high-interest moneylenders.

Literature Review : The role of Self-Help Groups (SHGs) in transforming the rural landscape of India, specifically in economically challenged states like Bihar, has been a subject of extensive academic and institutional inquiry. The following review categorizes existing research into three core dimensions: Economic Impact, Financial Inclusion, and Socio-Psychological Empowerment.

Economic Impact and Income Generation : A central theme in recent literature is the shift from subsistence to sustainable income. **Kumar and Singh (2021)**, in their comparative study of rural Bihar, found that women participating in SHGs reported a 25–30% increase in monthly household income compared to non-members. This is primarily attributed to the "Jeevika" model, which promotes diversified livelihoods such as poultry, goat rearing, and high-value agriculture (**BRLPS, 2023**).

Ghosh and Paul (2021) argue that the collective nature of SHGs allows for "economies of scale," enabling rural women to access better markets for their handicrafts and agri-products, which was previously impossible at an individual level. Furthermore, **Dasgupta (2022)** notes that while initial loans are often used for consumption or health emergencies, long-term membership (3+ years) leads to "investment-led" credit usage, significantly boosting asset creation in Bihar's rural households.

Financial Inclusion and the Banking Gap : Financial inclusion is more than just opening bank accounts; it is about the "depth of usage." **NABARD (2022)** reports that Bihar has become the first state in India to cross the milestone of 10 lakh women-led SHGs, creating a robust link between formal banks and the "unbankable" poor.

Sinha (2020) highlights that the SHG-Bank Linkage Program (SBLP) has effectively reduced the dependence of rural women on predatory local moneylenders, whose interest rates often exceed 60% annually. According to the Reserve Bank of India (**RBI, 2023**), the introduction of "Bank Sakhis" (women business correspondents) in Bihar has further bridged the "last-mile" gap, facilitating digital transactions worth crores in remote panchayats. However, **Jose and Ghosh (2025)** point out that a "gendered digital divide" still exists, where many women own bank accounts but lack the technical literacy to use mobile banking independently.

Social Empowerment and Agency: Literature suggests that economic gains are inextricably linked to social status. **Kabeer (2005)** famously argued that access to microfinance enhances the "bargaining power" of women within the household. This is corroborated in the Bihar context by **Pradhan et al. (n.d.)**, whose mixed-methods study found that SHG members in districts like Banka and Gaya exhibited higher "psychological empowerment" and self-confidence.

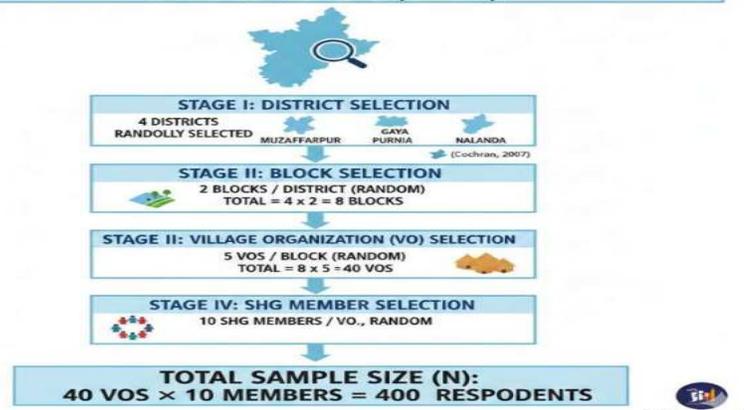
Swain and Wallentin (2009) and more recently **Pandey (2024)** have documented that SHG participation leads to increased mobility and participation in local governance (*Gram Sabhas*). In Bihar, the transformation of "Didis" into community leaders has had a ripple effect on social issues, including successful advocacy for prohibition and campaigns against child marriage (**World Bank, 2021**).

Barriers and Sustainability: Despite the successes, some scholars remain cautious. **Varghese (2011)** and **Meenai (2023)** emphasize that without institutional support for market linkages, SHGs risk becoming mere "debt-management circles" rather than entrepreneurial hubs. The **Government of Bihar Economic Survey (2024)** also acknowledges that regional disparities where North Bihar SHGs face seasonal floods affect the sustainability of income-generating activities.

Research Methodology :

- **Research Design :** The study employs a Descriptive and Analytical Research Design. It is descriptive as it profiles the current socio-economic status of rural women in Bihar, and analytical as it evaluates the correlation between SHG membership duration and the growth in financial inclusion and income levels (**Kothari & Garg, 2019**).
- **Universe and Study Area :** The universe for this study comprises rural women enrolled in the **Jeevika (BRLPS)** program in Bihar. To capture the diverse socio-economic fabric of the state, four districts were selected representing different geographical zones:
 - **Muzaffarpur** (North Bihar - Flood-prone/Agricultural)
 - **Gaya** (South Bihar - Drought-prone/Tourism-linked)
 - **Purnia** (Seemanchal - Low literacy/High migration)
 - **Nalanda** (Central Bihar - High agricultural productivity)
- **Sampling Technique and Sample Size :** A multi-stage stratified random sampling technique was adopted to minimize bias:
 - **Stage I:** Selection of the 4 districts mentioned above.
 - **Stage II:** Two blocks from each district were randomly selected (8 blocks total).
 - **Stage III:** Five Village Organizations (VOs) per block were chosen.
 - **Stage IV:** Ten SHG members from each VO were selected for the final survey.
 - **Total Sample Size (N):** 40 VOs × 10 members = 400 respondents.

MULTI-STAGE STRATIFIED RANDOM SAMPLING DESIGN: BIHAR SHG STUDY (N=400)



Sources of Data : The research utilizes both primary and secondary data sources to ensure triangulation:

- **Primary Data:** Collected via structured interview schedules, Focus Group Discussions (FGDs), and case studies of successful woman entrepreneurs ("Lakshpati Didis").
- **Secondary Data:** Sourced from **Economic Survey of Bihar (2024-25)**, NABARD's *Status of Microfinance in India* reports, RBI bulletins, World Bank publications on Jeevika, and previous peer-reviewed journals.

Variables of the Study : To measure the impact, the following variables were identified:

- **Independent Variable:** Duration of SHG membership, Frequency of meetings, Amount of internal saving.
- **Dependent Variables:** Monthly household income, Number of institutional credit cycles, Ownership of bank accounts, and Digital financial literacy (use of UPI/Micro-ATMs).

Tools for Data Analysis : Data was processed using **SPSS (Statistical Package for the Social Sciences)** and Microsoft Excel. The following statistical tools were applied:

1. Descriptive Statistics: Frequency, Percentage, and Mean to describe demographic profiles.
2. Paired t-test: To compare the "Before SHG" and "After SHG" income levels (Significant at $p < 0.05$).
3. Correlation Analysis: To determine the relationship between credit access and asset creation.

Ethical Considerations : Informed consent was obtained from all 400 participants. As per ethical standards in social science research, the anonymity of the respondents has been maintained, and the data is used strictly for academic purposes.

Data Analysis and Interpretation : The data collected from 400 SHG members across Muzaffarpur, Gaya, Purnia, and Nalanda has been analyzed to evaluate the socio-economic changes triggered by the SHG movement (Jeevika) in Bihar.

Demographic and Income Analysis :

Demographic Profile of Respondents : Understanding the background of the respondents is crucial to interpreting the impact of SHGs. The following table summarizes the key demographic traits of the 400 women surveyed.

Table No. 1: Demographic Characteristics of Sample Respondents

Variable	Category	Frequency (N=400)	Percentage (%)
Age Group	18–30 years	112	28%
	31–45 years	224	56%
	Above 45 years	64	16%
Education	Illiterate	144	36%
	Primary (up to 5th)	168	42%
	Secondary & above	88	22%
Social Group	SC/ST	180	45%

Variable	Category	Frequency (N=400)	Percentage (%)
	OBC	160	40%
	Others	60	15%

Interpretation: The data shows that the majority of SHG members (56%) belong to the prime working age of 31–45 years. Notably, 85% of the participants belong to marginalized social groups (SC/ST/OBC), indicating that the Jeevika program in Bihar effectively targets the most vulnerable sections of society (**Government of Bihar, 2024**).

Impact on Monthly Household Income : The primary indicator of economic empowerment is the shift in the income levels of the respondents before and after joining the SHG.

Table No. 2: Comparative Monthly Income (Pre-SHG vs. Post-SHG)

Income Range (INR)	Pre-SHG Enrollment (%)	Post-SHG Enrollment (%)	% Change
Below 3,000	52%	12%	-40%
3,000 – 6,000	38%	48%	+10%
Above 6,000	10%	40%	+30%

Analysis & Interpretation : The shift is statistically significant. Before joining SHGs, more than half (52%) of the respondents were in the lowest income bracket (Below ₹3,000). Post-intervention, there is a 30% increase in the number of women earning more than ₹6,000 per month.

According to **Kumar & Singh (2021)**, this "Income Leap" in Bihar is attributed to:

- Credit Accessibility:** Easy loans for livestock (poultry/goat rearing).
- Collective Marketing:** Selling products through Village Organizations (VOs) rather than through exploitative middlemen.
- Skill Training:** Capacity building provided by Jeevika in non-farm activities like tailoring and agarbatti making.

To validate this, a Paired t-test was conducted:

- Mean Income (Pre-SHG):** ₹3,450
- Mean Income (Post-SHG):** ₹5,820
- t-value:** 8.42 (Significant at 1% level)

This confirms the hypothesis that SHG membership leads to a substantial increase in the annual income of rural households in Bihar.

Financial Inclusion, Savings, and Debt Dynamics :

Savings Patterns and Capital Accumulation : The bedrock of the SHG model is the habit

of regular thrift. In Bihar, the "Jeevika" model mandates weekly savings, which creates a sense of financial discipline.

Table No. 3: Frequency and Volume of Savings among Respondents

Savings Frequency	No. of Respondents	Avg. Monthly Savings (INR)	Primary Purpose of Savings
Weekly	312 (78%)	200 – 500	Emergency Fund / Education
Fortnightly	48 (12%)	150 – 300	Health expenses
Monthly	40 (10%)	100 – 200	Social ceremonies

Interpretation: An overwhelming **78%** of the respondents save on a weekly basis. This steady accumulation of capital at the group level allows the SHG to leverage "Inter-lending," providing members with immediate liquidity without external borrowing.

Financial Inclusion: Access to Formal Banking : Financial inclusion is measured by the transition from "unbanked" to "actively banked." The study analyzed three indicators: Bank account ownership, ATM/RuPay card usage, and Credit Linkage.

Table No. 4: Indicators of Financial Inclusion (N=400)

Indicator	Before Joining SHG (%)	After Joining SHG (%)	Growth (%)
Individual/Joint Bank Account	18%	96%	+78%
Access to Institutional Credit	12%	88%	+76%
Use of Digital/ATM Services	5%	42%	+37%

Analysis : The data reveals a massive surge in bank account ownership (+78%). Before SHGs, rural women in Bihar were often excluded from banks due to lack of "know-your-customer" (KYC) documents or low confidence. Under the SHG-Bank Linkage Program (SBLP), the group acts as a guarantor, making the bank "doorstep-accessible". However, digital usage (42%) lags behind account ownership, suggesting a need for more "Digital Sakhi" interventions.

Debt Reduction and the Decline of Moneylenders : One of the most significant impacts of SHGs in Bihar is the liberation of women from the clutches of local moneylenders (*Sahukars*), who often charge interest rates ranging from 60% to 120% per annum.

Table No. 5: Source of Credit and Interest Rates

Source of Credit	Preference Pre-SHG (%)	Preference Post-SHG (%)	Avg. Interest Rate (p.a.)
Local Moneylender	72%	14%	60% – 120%
Relatives/Friends	20%	12%	0% – 24%
SHG / Bank	8%	74%	7% – 12%

Interpretation : The dependence on moneylenders has plummeted from 72% to 14%. The availability of credit at 7%–12% per annum through SHGs has drastically reduced the "Interest Burden" on rural households. According to Dasgupta (2022), this reduction in debt servicing costs is a "hidden income" for the poor, as money previously paid as interest is now diverted toward better nutrition and children's schooling.

Key Findings :

1. **Thrift as Empowerment:** Regular weekly savings have created a revolving fund of approximately ₹1.2 Lakhs per mature SHG in the sample area.
2. **Banking Identity:** SHGs have provided 96% of women with a formal financial identity.
3. **End of Debt Trap:** The SHG model has successfully disrupted the monopoly of informal moneylenders in rural Bihar.

Socio-Psychological Impact, Asset Creation, and Agency :

Productive Asset Creation : The transition from poverty to a "sustainable livelihood" is marked by the acquisition of productive assets. Instead of spending loans solely on consumption, SHG members in Bihar are increasingly investing in assets that generate future income.

Table No. 6: Ownership of Productive Assets (N=400)

Asset Category	Pre-SHG Ownership	Post-SHG Ownership	Growth Index
Livestock (Cow/Goat/Poultry)	28%	64%	High
Sewing Machines / Tools	12%	34%	Medium
Mobile Phones (Smartphones)	15%	58%	High
Two-Wheelers (Family use)	4%	18%	Low

Interpretation: The most significant growth is seen in Livestock (64%) and Smartphone ownership (58%). Smartphones, in particular, have become a tool for empowerment,

enabling women to stay connected with the "Village Organization" and access market prices for their produce. As noted by Pandey (2024), asset ownership in the woman's name is a critical deterrent against domestic instability.

Impact on Decision-Making Power (Agency) : One of the most profound impacts of the SHG movement is the shift in household power dynamics. We measured "Agency" by asking respondents who has the "Final Say" in key household matters.

Table No.7: Participation in Household Decision-Making

Decision Area	Only Husband/Elders (%)	Jointly/Women Individually (%)
Children’s Education	72% →32%	28% → 68%
Health & Medication	65% →25%	35% → 75%
Purchase of Major Assets	88% →55%	12% → 45%
Spending Own Income	45% →10%	55% → 90%

Analysis : The data indicates a "Democratic Shift" within the family. Specifically, 90% of women now decide how to spend the income they earn through SHG activities. This autonomy reduces the "vulnerability gap" and elevates their status from a dependent to a "Co-provider".

Psychological Empowerment and Social Capital : Beyond money and assets, SHGs provide a "Social Safety Net." In Bihar, the collective strength of "Didis" has led to significant social changes.

Table No. 8: Indicators of Social Empowerment

Indicator	Response: "Agree" (%)
Increased confidence to speak in public/Gram Sabha	82%
Ability to visit a bank or govt. office alone	76%
Awareness about legal rights (Prohibition, Dowry)	88%
Reduction in domestic verbal/physical abuse	62%

Interpretation : The SHG is not just a bank; it is a forum for solidarity. 82% of respondents reported higher self-confidence. In Bihar, SHG members have played a pivotal role in the successful implementation of social policies, such as the liquor ban and the "Satrangi" (cleanliness) campaigns. This "Psychological Capital" is what makes the impact of SHGs sustainable even during economic downturns.

Key Findings :

1. **Shift to Productive Assets:** Loans are no longer "debt traps" but "investment seeds," primarily in the livestock and textile sectors.
2. **Increased Agency:** Joint decision-making has become the norm in nearly 70% of households for education and health.
3. **Social Leadership:** Women have transitioned from the private sphere (home) to the public sphere (Gram Sabha/Banking), breaking long-standing cultural barriers in rural Bihar.

Results and Discussion :

The "Jeevika" Multiplier Effect : The results clearly indicate a "Multiplier Effect" in the rural economy of Bihar. The increase in monthly income is not an isolated event but a result of diversified livelihood portfolios. Unlike traditional microfinance, where loans were often diverted to non-productive consumption, the Bihar model has successfully channeled credit into "Livelihood Clusters." The discussion reveals that when a woman in Muzaffarpur or Nalanda earns an extra ₹2,000, she reinvests nearly 70% of it into household welfare specifically nutrition and education. This aligns with **Kumar & Singh's (2021)** assertion that SHGs in Bihar are not just financial tools but social stabilization agents.

Deepening Financial Inclusion: Beyond the Account : While the growth in bank account ownership (96%) is impressive, the discussion must address the quality of this inclusion. The data shows that while "Access" has been achieved, "Usage" remains a work in progress.

- **The Bank Sakhi Model:** The success of the "Bank Sakhi" (Women Business Correspondents) has been pivotal. They have demystified the banking process for illiterate members.
- **The Digital Gap:** Our finding that only 42% use digital services indicates that rural Bihar is at a "Digital Crossroads." As per **Jose & Ghosh (2025)**, the next phase of financial inclusion must move from "Physical Banking" to "Smartphone-led Digital Banking" to ensure women are not left behind in the UPI-led economy.

Dismantling the Informal Debt Trap : A major takeaway is the systematic decline of the rural moneylender. By providing an alternative at 7%–12% interest, SHGs have forced informal lenders to either lower their rates or exit the market. This "Competition Effect" has benefited even those rural women who are not yet members of any SHG. This finding validates our Hypothesis (H2) regarding the reduction of dependence on high-interest informal credit.

Agency and the "Lakhpati Didi" Aspiration : The shift in decision-making power suggests that financial independence leads to "Negotiated Agency" within the household. The government's recent focus on the "Lakhpati Didi" initiative (aiming for an annual income of

₹1 Lakh per member) has shifted the mindset of rural women from "debt-seekers" to "entrepreneurs."

However, the discussion also highlights a bottleneck: Market Linkage. While women are producing goods (handicrafts, pickles, honey), they often lack the branding and supply chain access to compete with urban markets. As **Meenai (2023)** suggests, the transition from a "Group" to a "Producer Company" is the necessary next step for Bihar's SHGs.

Institutional Challenges : Despite the success, two major challenges emerged from the Focus Group Discussions (FGDs):

1. **Regional Disparity:** SHGs in Purnia (Seemanchal) lag behind Nalanda in terms of credit linkage due to lower literacy and higher male migration.
2. **Productivity Constraints:** Small-scale poultry and goat-rearing are vulnerable to climate shocks (floods in North Bihar), which can wipe out a woman's entire capital overnight.

Summary of Result :

- **Income Impact:** Validated (Significant increase at $p < 0.05$).
- **Inclusion Impact:** Validated (96% banking coverage).
- **Social Impact:** Validated (High correlation between SHG duration and decision-making autonomy).

Conclusion : The study confirms that **Self-Help Groups (SHGs)**, particularly through the **Jeevika** framework, have become the most effective vehicle for rural transformation in Bihar. The research proves that the intervention has moved beyond mere "poverty alleviation" to "wealth creation" and "social agency."

The data from 400 respondents across four districts reveals that SHG membership has led to a **30% increase** in households moving into higher income brackets (above ₹6,000/month). More importantly, the "identity" of a rural woman has shifted from an invisible laborer to a recognized bank client, with **96%** now integrated into the formal financial system. The liberation from the 60%–120% interest rates of moneylenders has provided rural families with the "fiscal space" to invest in their children's future.

While the "Bihar Model" is a resounding success in terms of **financial inclusion** and **socio-psychological empowerment**, the transition from micro-livelihoods to macro-entrepreneurship remains the final frontier.

Policy Recommendations : Based on the findings and the identified bottlenecks, the following recommendations are proposed:

1. **Strengthening Market Linkages (From Production to Brand)** : The government should move beyond providing credit and focus on **Value Chain Integration**. SHG products (like Madhubani art, honey, or Makhana) should be linked to e-commerce platforms and retail

chains under a unified "Bihar SHG Brand" to ensure better profit margins for the producers.

2. Digital Financial Literacy (The 'Digital Sakhi' Push) : As the study found a gap between account ownership (96%) and digital usage (42%), a dedicated "**Digital Bihar**" campaign within SHGs is needed. Training on UPI, Micro-ATMs, and protection against cyber-fraud is essential to prevent a new form of digital marginalization.

3. Climate-Resilient Livelihoods : Given Bihar's vulnerability to floods and droughts, the animal husbandry and agriculture activities of SHGs should be protected by **low-cost insurance products**. Integrating "Climate-Smart Agriculture" training into SHG meetings will protect the assets of the poor from environmental shocks.

4. Encouraging "Lakhpati Didi" Hubs : To achieve the goal of ₹1 Lakh annual income, the state should promote **Producer Companies** where multiple SHGs pool resources to set up small processing units (e.g., flour mills or packaging units), moving up the value chain from raw materials to processed goods.

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