

Factors Contributing to the Constraints Faced by Rural Women Regarding Their Livelihood

ABSTRACT

The main purpose of the study is to determine the extent of the constraints faced by the women beneficiaries of Palli DaridroBimochon Foundation (PDBF) on their socio-economic development and to explore the relationship between the socio-economic characteristics of the beneficiaries and their constraints. A total of 3436 women beneficiaries of three upazilas under 55 districts of PDBF constituted the population of the study. A face-to-face interview survey was conducted to collect data from the randomly selected 346 respondents. Among the 13 selected problem items 'high rate of interest' was ranked first (70.81%), 'more savings have to be deposited while taking the loan' was ranked second (68.69%) and third (68.40%) was 'various income generating activities and social development training are inadequate'. The findings revealed a significant relationship between training exposures, decision-making ability, savings deposit, income-generating activities, communication & network, and constraints faced by PDBF beneficiaries. Therefore, it may be recommended that the PDBF authority should consider the significant factors to reduce the respondents' constraint and to maximize their socioeconomic development.

Keywords: *Women Beneficiaries; PDBF; Constraints Faced; Socio-economic Development; Livelihood*

1. INTRODUCTION

In many developing countries, women in rural communities play a role in meeting the needs of their families when they engage in income-generation activities (Nuryati, Djono, and Chotimah 2022; Zunaidi and Maghfiroh 2021) [1]. Rural economy is very important for the development of Bangladesh because three-fourth of the people still lives in rural areas and poverty rate is 18.7% percent in Bangladesh [2]. Rural financing is regarded as the growth engine that propels the economy and generates employment on a global scale. Their ability to promote economic growth, maintain the global economic recovery, creation of employments, and lower poverty has propelled them to the forefront of the sustainable development agenda. Agriculture provides livelihood for over 60% of Bangladesh's population. It is pivotal to provide food and income for the rural poor. At the same time, it is also crucial to reduce agriculture's high population density. Powerful social, economic, and natural forces are driving changes in agricultural systems. The agriculture sector must respond to these forces to improve livelihoods by balancing farm and non-farm activities.

Presently in its wider dimension micro credit is known as microfinance and seen as a legitimate economic tool in the fight against poverty. The impact of giving credit to women has been a controversial issue. At one end of the spectrum, some argue that micro credit has positive impacts on gender equality, women's empowerment and households' well-being. Moreover, women participating into micro credit programs improve their ability to exercise agency in the intra-household processes, to increase women's welfare resulting in decreasing male bias in welfare outcomes in the household; to increase the contraceptive use by women [3]. Microfinance savings and Micro Finance Institutions' (MFIs) also potentially help families in developing countries to cope with financial risks from main

illnesses resulting from the cost of medical care and loss of income during illness [4]. The current research addressed crucial issues which are faced by the rural women in Bangladesh. Palli DaridroBimochon Foundation (PDBF) is the premier socio- economic development organization in the country. About 97% of the beneficiary members of PDBF are women [5]. PDBF has been providing microcredit and women enterprise loans facilities to generate more income and employment. Thus, women beneficiaries of PDBF have been facing a lot of problems like high interest rates, inadequate loan amounts, lack of training, poor network and communication, etc.PDBF plays an important role in bridging the gap between the loan program, microfinance,andinstitutionallending.Foralong time, PDBF has been providing microcredit and women enterprise loans to rural clientele. Therefore, the present study was undertaken considering the following objectives:

- i) To determine and describe some selected characteristics of the women beneficiaries;
- ii) To explore the extent of the constraints faced by the women beneficiaries of PDBF on the socio-economicdevelopment;
- iii) To determine the relationships between socio-economiccharacteristicsofthe women beneficiaries and their problem conformation.

2. METHODOLOGY

2.1 StudyArea

The study was conducted in three upazilas out of 55 districts of PDBF in Bangladesh to objectively represent the entire working area. The area was selected purposively. There has been observed active participation of the beneficiaries in these selected areas.

2.2 PopulationandSampling

Out of 3436 total populations, 346 women beneficiaries were selected as sample based on Yamane formula [6]. A reserve list of 35 respondents (about 10% of the sample) was also prepared in case of unavailability of the respondents. A simple random sampling technique was used to select respondent for the interviews.

2.3 SelectionandMeasurementof Variables

The extent of the constraints faced by the beneficiaries was the focus variable and fifteen socio-economic characteristics were selected as explanatory variables namely age, educational qualification, total dependency ratio, farm size, involvement with PDBF, training exposure, savings deposit, loan availability, loan utilization, loan repayment behavior, decision making ability, income generating activities, innovativeness and communication and network. The study employed descriptive statistics, specifically mean, standard deviation, and percent, to measure the socioeconomic characteristics of the beneficiaries. The study's variables were operationalized by direct questioning, the researcher's creation of pertinent scales, and the use of scales created by others. Table 1 displays the study's measuring unit.

2.4 MeasurementofDependentVariable

Constraints faced by the women beneficiaries in socio-economic development were the dependent variable of this study. There were sixteen items on the interview schedule. Each item was rated on a four-point ratingscale: no problem, less problem, moderate problem, and severe problem. A score of 0, 1, 2, and 3 was given to each item, accordingly. By aggregating the respondents' scores over sixteen criteria, the issues that the beneficiaries encountered could be ascertained. Therefore, the farmers' issues might be ranked from 0 to 42. Based on the acquired score, the beneficiaries were divided into four categories: no constraint faced, low constraint faced, medium constraint faced, and high constraint faced.

Constraints Faced Index (CFI) for each of the items was measured by using the following equation 1 [7,8,9].

$$CFI = C_s \times 3 + C_m \times 2 + C_l \times 1 + C_n \times 0 \dots \dots \dots (1)$$

Table 1. Summarized operationalization of the variables of the study with measuring unit

Variables	Measuring Unit	Operationalization
Age	Actual years	Direct question
Educational Qualification	Schooling Year(s)	Direct question
Total dependency ratio	Percent	Used (TDR) formula
Farm size	Hectares	Direct question
Length of involvement	Score (1 for 1 year)	Direct question
Training exposure	months (1 for 1 month)	Scaled developed for this study
Savings deposit	'000' Taka	Direct question
Loan availability	Percent	Used (LA) formula
Loan utilization	Percent	Used (LU) formula
Loan repayment behavior	Percent	Used (LRB) formula
Decision-making ability	Score	Scaled developed by Ali (2008) [8, 11] used for this study
Income generating activities	Score	Direct question
Innovativeness	Score	Direct question
Network and communication	Score	Direct question

In the given context, CFI stands for Constraints Faced Index, Cs for the number of respondents who experienced severe constraints, Cm for those who experienced a moderate constraint, Cl for those who experienced a smaller constraint, and Cn for those who experienced no constraint. Then, Standardized Constraints Faced Index (SCFI) was measured to compare the constraint of the items. SCFI was measured for each constraint item by using the following equation 2.

Standardized Constraints Faced Index (SCFI)

$$\frac{CFI \text{ of the each item}}{\text{Highest possible CFI}} \times 100 \dots \dots \dots (2)$$

2.5 Data Collection and Analysis

The primary responsibility for achieving the study's goals was interviewing 346 respondents from the study areas in order to obtain data. To ensure that the respondents would not hesitate to provide accurate information, the researcher did everything within her authority to develop the necessary rapport with them. To ensure that they could provide accurate information with a clear mind, the respondents were interviewed during their free time. Data were collected from 05 August 2023 to 15 October 2023.

After the field survey was completed, the data was collected and modified to make it ready for analysis. There were statistical treatments performed, including percent, mean, standard deviation, range, and frequency. Equation 3 was used to calculate Pearson's product-moment coefficient of correlation (r) in order to investigate the correlations between the study's chosen elements [10]. The SPSS (Statistical Package for Social Science) software program (version 23) was used for this purpose. In this investigation, the probability level of five percent was employed.

$$r_{xy} = \frac{\sum(x_i - \bar{x})(y_i - \bar{y})}{\sqrt{\sum(x_i - \bar{x})^2 \sum(y_i - \bar{y})^2}} \dots \dots \dots (3)$$

r_{xy} = Pearson's product-moment correlation coefficient

\bar{x} and \bar{y} mean = Means of the variables x and y , respectively.

3. RESULTS AND DISCUSSION

3.1 Socio-economic Characteristics of the Rural Women Beneficiaries

Table 2 displays the socioeconomic characteristics of the rural women beneficiaries. Table 2 presents some of the notable features of the beneficiaries, including the number, percent, mean, and standard deviation (SD) of the selected characteristics. Respondents with middle-aged and secondary school education comprised the majority of the sample [11]. The majority of total dependency ratios, training exposures, and savings deposits were in the low category [12]. Regarding their length of involvement with PDBF, decision-making abilities, ability to income-generating activities, innovativeness, and network and communication, most respondents fell into the medium category. The majority of loan availability, loan utilization, and loan repayment behavior was in the high category [12] (Table 2).

3.2 Constraints Faced by the Rural Women Beneficiaries of PDBF in Socio-economic Activities

Constraints faced by the rural women beneficiaries in socio-economic development were considered as dependent variable of the study. It was assessed based on how well they could handle the 13 issues that were selected.

Constraints faced by the small enterprise beneficiaries range from 7 to 27 against the possible range of 0 to 39 with the mean and standard deviation of 16.61 and 4.49 respectively. Based on the constraint scores of the beneficiaries, they were classified into four groups namely, no, low, medium, and high constraints faced. The distribution of the respondents according to the constraints faced by the rural women under the study is given in Table 3.

Table 3 indicates that the highest proportion (60.11 percent) of the women beneficiaries faced medium constraints in their socio-economic activities, while 20.23 percent faced high and 19.66 percent faced low problems. Most respondent beneficiaries use their extensive experience and knowledge from regular credit and savings activities to address their problems. The findings indicate that women beneficiaries in the research area struggled with socioeconomic activities. Some factors, including a lack of training facilities and low deposits are the cause of those problems. According to [12], the primary constraint to beneficiaries' success is a lack of necessary skills and training. Moreover, they argued that inadequate capital, training, and poor schooling are the main causes of microcredit operations' failure.

Table 2. Distribution of respondents according to their characteristics (n=346)

Characteristics	Categories	Respondent		Mean	SD
		Number	Percent		
Age(years)	Youngaged(18-35)	148	42.77	37.79	9.13
	Middleaged(36- 55)	188	54.34		
	Oldaged(>55)	10	2.89		
Education(schooling years)	Cansignonly(0.5)	119	34.39	5.03	3.97
	Primarylevel(1-5)	74	21.39		
	Secondarylevel(6-10)	132	38.15		
	Highersecondarylevel(11-12)	16	4.62		
	Bachelorlevel(>12)	5	1.45		
Totaldependency	Lowtotaldependencyratio(0-50)	227	65.61	48.99	45.71

ratio (percent)	Mediumtotaldependencyratio(51-100)	101	29.19		
	Hightotaldependencyratio(>100)	18	5.20		
Farm size (Hectares)	Landless (up to 0.02 hec.)	80	23.12	0.19	0.264
	Marginal (>0.02 - 0.2 hec.)	154	44.51		
	Small (>0.21 – 1.0 hec.)	102	29.48		
	Medium (>1.01 – 3.0 hec.)	10	2.89		
	Large (> 3.0 hec.)	0	0.00		
Lengthof involvement (years)	Low involvement (Up to 2)	59	17.05	7.06	4.84
	Medium involvement (3-7)	146	42.20		
	High involvement (>7)	141	40.75		
Trainingexposure (months)	No training (0)	101	29.19	5.64	12.77
	Low training (1-4)	123	35.55		
	Medium training (5-15)	109	31.50		
	High training (>15)	13	3.76		
Decisionmakingability (score)	Lowdecisionmakingability(upto8)	3	0.87	9.85	1.00
	Mediumdecisionmakingability(9-12)	328	94.80		
	Highdecisionmakingability(>12)	15	4.33		
Savingdeposit (1for'000'Tk.)	No savings deposit (0)	0	0.00	30.55	40.29
	Low savings deposit (up to 20)	206	59.54		
	Medium savings deposit (21-80)	111	32.08		
	High savings deposit (>80)	29	8.38		
Loanavailability (percent)	Lowloanavailability(upto80%)	45	13.01	94.84	10.31
	Mediumloanavailability(81%-95%)	44	12.71		
	Highloanavailability(>95%)	257	74.28		
Loanutilization (percent)	Lowloanutilization(upto50%)	94	27.17	87.54	13.59
	Mediumloanutilization(81%-95%)	123	35.55		
	Highloanutilization(>95%)	129	37.28		
Loanrepayment behavior (percent)	Lowloanrepaymentbehavior(upto50%)	22	6.36	95.00	11.46
	Mediumloanrepaymentbehavior(81%-95%)	58	16.76		
	Highloanrepaymentbehavior(>95%)	266	76.88		
Income generating activities	Low income generating activities (up to 8%)	74	21.39	12.53	4.51
	Medium income generating activities (9% - 16 %)	207	59.83		
	High income generating activities (>17 %)	65	18.78		
Innovativeness	Low innovativeness (up to 12)	95	27.46	19.05	6.99
	Medium innovativeness (13-24)	160	46.24		
	High innovativeness (>24)	91	26.30		
Network & communication	Low network & communication (up to 7)	67	19.36	19.05	6.99
	Medium network & communication (8-15)	225	65.03		
	Highly network & communication (>15)	54	15.61		

Table 3. Distribution of the women beneficiaries of PDBF according to constraints faced on socio-economic activities

Categories(Scores)	Respondents of beneficiaries		Mean	SD
	Number	Percent(%)		

Lowproblem(Mean- SD)	68	19.66		
Mediumproblem(Mean±SD)	208	60.11	16.61	4.49
Highproblem(Mean+ SD)	70	20.23		
Total	346	100.00		

Table 4. Constraints faced by the women beneficiaries of PDBF on socio-economic activities with rank order

Sl. No.	Item of Constraints	Extent of Constraints faced				Total	CFI scores	SCFI (%)	Rank order
		Severe constraint (3)	Moderate constraint (2)	Less constraint(1)	No constraint (0)				
1.	Inadequate loan amount as per demand	11	34	86	215	346	402	38.73	7
2.	Loan disbursements are delayed due to lengthy loan process	11	37	86	212	346	193	18.59	12
3.	Loans are not available on time	1	46	88	211	346	183	17.63	13
4.	New loans are not available until all installments of the previous dues cleared	27	63	88	168	346	295	28.42	10
5.	Loans are not available for starting new income generating activities	37	94	70	145	346	369	35.55	9
6.	Interest rates on loans are high	138	137	47	24	346	735	70.81	1
7.	No capacity to use credit in the proper trade	4	63	70	209	346	208	20.03	11
8.	Due to short repayment period, the loan cannot be utilized properly	21	103	106	116	346	375	36.13	8
9.	Lack of training, skilled workers and other support for production and marketing of products	122	100	106	18	346	672	64.74	4
10.	Various income generating activities and social development training are inadequate	130	131	58	27	346	710	68.40	3
11.	Inconsistency between training and credit	51	134	83	78	346	504	48.55	6

12.	More savings have to be deposited while taking the loan	143	126	32	45	346	713	68.69	2
13.	Absence of pressure from the solidarity group to collect credit and savings	103	126	41	76	346	602	58.00	5

3.3 Item Wise Comparative Severity of the Constraints Faced by the Women Beneficiaries of PDBF in Socio-economic Activities

Table 4 displays the Rank order, the Standardized Constraints Faced Index (SCFI), and the Constraints Faced Index (PFI) score. The observed CFI scores of the items ranged from 183 to 735 against the possible range of 0-1038. Table 4 showed that based on the Standardized Constraint Faced Index (SCFI) among the 13 selected constraint items 'high rate of interest' was ranked first (70.81%), 'more savings have to be deposited while taking the loan' was ranked second (68.69%) and third (68.40%) was 'inadequate training on social awareness building and income generating activities'. The next five important problems in descending order were 'due to short repayment period the loan cannot be utilized properly', 'loan disbursements are delayed due to lengthy loan process', 'no capacity to use credit in the proper trade', 'new loans are not available until all installments of the previous dues cleared', 'loans are not available for starting new income generating activities'. However, 'loans are not available on time' was ranked last (36.13%).

3.4 Relationship between the Selected Characteristics of the Women Beneficiaries and their Constraints Faced in Socio-economic Activities

Relationships of fourteen selected characteristics (age, education, dependency ratio, farm size, length of involvement, training exposure, decision-making ability, Savings deposit, Loan availability, Loan utilization, Loan repayment behavior, Income generating activities, Innovativeness and Communication & network towards of the women beneficiaries and their constraints faced in socio-economic activities have been shown in Table 5. Data in Table 5 revealed a significant relationship between training exposures, decision-making ability, savings deposit, income-generating activities, communication & network, and constraints faced by PDBF beneficiaries. Only one of these five significant variables, training exposures and problems faced by PDBF women beneficiaries, demonstrated a positive significant relationship. The remaining four variables showed a significant negative relationship with the constraints faced by PDBF women beneficiaries.

Training improves their performance and makes them work more efficiently and effectively. By providing training the beneficiaries know how to adopt, new technology, new production processes, and new marketing arrangements, while continuing to take a calculated risk and have sound business and financial management skills [13]. Beside this, other research findings indicate that women's education, occupation, income, and gender-based awareness have a significant effect on household decision-making power [14]. Findings of the study show that the decision-making ability, communication, and network of the beneficiaries lower the problem faced by socioeconomic development activities.

Table 5. Pearson's product moment co-efficient of correlation showing relationship between beneficiaries' characteristics and constraints

Dependent variable	Independent variables	Value of co-efficient correlation
Constraints faced by the women beneficiaries	Age	0.041
	Education	0.073

in socio-economic activities	Total dependency ratio	-0.063
	Farm size	-0.042
	Length of involvement	-0.060
	Training exposure	0.148
	Decision-making ability	-0.150**
	Savings deposit	-0.103
	Loan availability	0.064
	Loan utilization	-0.006
	Loan repayment behavior	-0.072
	Income generating activities	-0.127**
	Innovativeness	-0.072
	Communication & network	-0.259

*=Significant at 0.05 level of probability; **=Significant at 0.01 level of probability

4. CONCLUSIONS

According to the findings and discussion above, the vast majority (81.18%) of women beneficiaries of PDBF faced medium to severe problems. Thus, it can be said that to maximize socioeconomic development, the issue that the rural women beneficiaries are facing is a serious one. Women beneficiaries in the study area experienced several constraints, of which, high rate of interest, more savings have to be deposited while taking the loan, inadequate training on social awareness building and income generating activities, due to short repayment period the loan cannot be utilized properly, loan disbursements are delayed due to lengthy loan process were significant. Therefore, it is highly recommended that the respective authority may provide better interventions like low loan interest rates, ensure minimum savings credit equity, provide adequate need based training, established training-credit linkage, high loan amount that would increase the profitability of the women beneficiaries. Otherwise, interest dealers, new moneylenders and other businessmen may participate in rural financing and try to harm rural women in the name of development. The most promising aspect is that PDBF has the opportunity to contribute to the advancement of women across the country.

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