# HARNESSING THE MICRO ENTREPRENEURSHIP THROUGH ISLAMIC WAY: EVIDENCE FROM THE MICRO FINANCE INSTITUTIONS IN PAKISTAN

#### SABEEN KHURRAM KHAN

Assistant Professor, Department of Management Sciences, COMSATS University Islamabad. Email: skhan@comsats.edu.pk

#### SADIA SAEED

Lecturer, Department of Management Sciences, National University of Modern Languages, Islamabad. Email: sasaeed@numl.edu.pk

#### HUMAIRA KOUSAR

Lecturer, Department of Management Sciences, COMSATS University Islamabad. Email: humairakousar@comsats.edu.pk

#### MUHAMMAD UMER QUDDOOS \*

Assistant Professor, Department of Commerce, Bahauddin Zakariya University, Multan, Pakistan. \*Corresponding Author Email: umerattari@bzu.edu.pk, ORCID ID: 0000-0002-1498-6822.

#### ARSLAN AHMAD SIDDIQI

General Manager, Institute of Industrial and Control System, Karachi, Pakistan. Email: dr.arslan.siddigi@gmail.com, ORCID ID: 0000-0002-2430-1145

#### MUHAMMAD ADEEL

MS Scholar, Department of Commerce and Finance, Government College University, Lahore, Punjab, Pakistan. Email: acct.muhammad.adeel@gmail.com. ORCID ID: 0009-0005-9539-6654

#### Abstract

The primary objective of the study is to explain the influence of Islamic microfinance in the progress of entrepreneurship development in Pakistan. Islamic microfinancing having unique characteristics of risk-sharing contracts and the distribution of wealth across the society through specific financial instruments has been gaining popularity in entrepreneurship and opening new avenues for future research. Self-administered questionnaires were used to collect the data from the users of Sharia-compliant products. The results of multinomial logistic regression reveal that Islamic microfinance has a significant impact on micro-entrepreneurship development. The policymakers, who promote the development of new ventures using Islamic microfinance, should ensure broadened access of the micro-entrepreneur to microfinance products. Moreover, Islamic microfinance institutions can contribute a lot to improving the living standards of entrepreneurs by becoming a link between government and people in policy implementation.

**Keywords:** Islamic Microfinance, Multinomial Logistic Regression, Micro-Entrepreneurship, Income Smoothing, Financial Performance, Enterprise Resource Base.

#### **1.0 INTRODUCTION**

Newman et al., (2017) refer to microfinance as the means to provide small-scale loans to poor people to come out of the crisis and fulfill their basic needs. According to the information of the World Bank, microfinance plays a pivotal role in addressing income variation and poverty. The scope of microfinance has been broadened with the passage

of time and a small loan amount/finance is given to a person to start the business or expand it to become self-employed and improve living standards (Mondal, 2015). Before the emergence of Islamic microfinance, the poor had no collateral and unverified credit histories and faced difficulty in accessing commercial financial institutions for loans. Therefore, Islamic microfinance is a platform for entrepreneurs and needy persons in alleviating poverty and enhancing business activities globally (Suzuki et al., 2016).

Islam claims "access to finance for all" in the true sense. Its two distinct features, namely risk sharing and redistribution of wealth enable the entrepreneurs to earn their livelihood using affordable financial resources and build new ventures. This makes the Islamic microfinance system different from the interest system of conventional finance. Islamic microfinance refers to meeting the financial needs of the poor and innovative persons to mitigate poverty and to make the people economically independent. Moreover, financial instruments offered in Islamic microfinance for the progress of the needy are Sharia-compliant and embedded in four Islamic principles (Weill 2019). These Islamic principles are Interest is prohibited, Risk exists, and return is given to lenders through profit sharing, Activities like gambling, and alcohol are not allowed and there is no uncertainty in the contract because *gharar* is prohibited in Islami.

Previous studies focused on microfinance as the major instrument of poverty reduction, development of economies, and empowerment of poor people but the role of microfinance in micro-entrepreneurship has not been investigated before (Mondal, 2015). The current study fills that gap and attempts to discuss the impact of microfinance on micro-entrepreneurship activities. Microfinance, a small loan amount/finance is given to start or expand the business hence the business starts or expands with that is also micro or small known as micro-enterprise. "A micro entrepreneur takes risks to start a new incomegenerating activity (new enterprise) or invest in an already established income-generating activity (established enterprise)".

It is believed that unemployed, poor, or jobless people cannot get finance from formal financial institutions because they have no collateral and are not able to pay the interest along with the original amount of the loan (El-Gamal 2006; Obaidullah 2008; Akhter 2009; Moisseron and Teulon 2015). Therefore, these people are reluctant to use conventional microfinance products and sometimes exclude themselves from the traditional financial system. The people with innovative ideas for a business find no access to financial resources their ideas will go in vain. In the absence of an inclusive finance and personal wealth to become entrepreneurs and to take advantage of existing growth opportunities. Market imperfections including transaction cost and asymmetric information limit their opportunities and lead to slow economic growth and persistent inequality among individuals. Islamic microfinance is a contrivance for an entrepreneur who has no money but possesses an intellectual mind that contains an innovative idea. If that idea is practically implemented, they can be self-employed, progress, and survive in the economy.

According to Kenny and Rossiter (2018), entrepreneurship is a transition phase between unemployment and self-employment. The entrepreneur needs microfinance for entrepreneurial activities including financial performance, income smoothing, and enterprise development. The current study is designed to address the role of Islamic microfinance in enhancing micro-entrepreneurship activities. The study answers the following questions Is Islamic microfinance, an entirely different system from conventional finance able to increase the financial performance of micro-entrepreneurs. Is the Islamic finance system contributed to earning sufficient income for the repayment of loans easily? Is business expansion possible using Islamic microfinance products?

Data has been collected from Islamic institutions in Pakistan through a questionnaire administered through literature. Regression has been applied using Stata software to know the impact of micro-financial products on entrepreneurial activities. Assessing the impact of Islamic microfinance on entrepreneurial development is a recent phenomenon and no empirical research has been conducted before. It is, therefore, imperative to study this area that has a distinguished contribution to the literature of Islamic financial institutions and business. Moreover, the findings of the study are beneficial for entrepreneurs to understand the role of Islamic microcredit in starting a business at the micro level.

## 2.0 LITERATURE REVIEW

Islamic microfinance is an emerging concept with all of its benefits to the distressed segment of society. The micro financing in the context of Islamic mode is the new domain of finance, working just about half a century ago. Literature, in this context, is insufficient to give a strong literature review, especially the empirical one. Under the existing circumstances, an effort has been made to research the given literature available. In Pakistan, it is a relatively new phenomenon and no empirical study has been conducted to explore the relationship between Islamic microfinance products/services and micro-entrepreneurial activities.

The poor who cannot get finance from formal financial institutions may cater to their needs through Islamic finance. According to different studies, Islamic microfinance helps with poverty mitigation (Naveed, 2014; Alaro& Alalubosa, 2017; Mansori et al 2020). Komi and Croson (2011) study that over one-third of the world's poor are Muslims (Economist, 2008), and they avoid investing in microfinance interest-based products. Their religious beliefs refrain needy persons from taking conventional products of microfinance, so they exclude themselves voluntarily from becoming members of the financial system. Riwajanti (2013) finds Islamic micro financing as a tool to alleviate poverty through financial access to people in need. The findings of the study support that social justice for all in the Islamic mode of financing would strengthen the economic development of the country by building human capability.

Masyita and Ahmad (2013) examine the perceptions and preferences of the clients of microfinance institutions about Islamic and conventional finance. The empirical results of the study identify economic and non-economic factors that suit the clients to prefer IMFIs.

Interest-free loans, size of loans, and no collateral are the economic factors, and easy access to finance, availability of quality services, and easy repayment methods are included in non-economic factors. Moreover, these characteristics have ranked the IMFIs competitive as compared to conventional rural banks and Islamic rural banks in different regions of countries

In another important study Ahmad et al., (2020) discussed conventional microfinance institutions and Islamic microfinance institutions in the context of outreach and financial sustainability. The findings of the study empirically provide evidence that the market of Islamic institutions is growing in every region of the world. In contrast, the study of Berguiga et al (2020) demonstrates that conventional microfinance institutions have higher financial and social performance as compared to Islamic microfinance institutions. Ahmad et al., (2016) empirically examine the role of Ioans without interest in raising the living conditions of the extremely poor people in Pakistan. The study was conducted in Punjab and empirically supported that Islamic microfinance riba-free products improve the living standards of the people more than their consumption level.

In Pakistan, the Islamic mode of financing is becoming popular in reducing the unequal distribution of wealth. Besides this, the new financing method is gaining success in improving income, living standards, profitability, awareness level, and ethical values of the needy (Muhammad Naveed 2014). Khan (2014) examined the comparative socio-financial performance of two IMFIs and two conventional MFIs in Pakistan. Mix Market database rated these four banks with four stars. The financial and social indicators including profitability, productivity, portfolio quality, and financial structure of these banks are comparatively analyzed during the period of six years (2005-2010). They found that Islamic MFIs were more cost-effective, based on "Cost per Borrower" and "Operating Expenses to Assets." Akhuwat has the most efficient employees, followed by a conventional MFI. Conventional MFI's Financial Revenue to assets is higher indicating better financial efficiency as compared to IMFIs. The results of the study are mixed in the context of financial performance. Moreover, profitability indicators are not promising as well. One of the conventional MFI's Asasah, has a positive return on equity across all four MFIs

Terano et al (2015) analyze the impact of microfinance in facilitating the business environment. It provides an opportunity for the development of domestic entrepreneurship. Unemployed people can take microfinance loans and establish their businesses. Newman et al (2017) conducted a study to know the impact of Islamic microfinance in improving the livelihood of people through entrepreneurial activities. The findings of the study support the contribution of microfinance instruments in enhancing the development and performance of ventures. Similarly, Shahriar et al., (2016) discuss the role of microfinance in the creation of new ventures and their establishments. The literature on microfinance and entrepreneurship is limited. The current study is the extension of previous studies and focuses on the role of Islamic microfinance in entrepreneurial activities including income smoothing, financial performance, and business expansion in Pakistan. Financial performance refers to *growth in* revenue and improving conditions of profitability including business expansion, an increase in the number of workers, and new products (Mehmood and Rosli 2013). Growth is the superior indicator of financial performance as compared to accounting measures. However, Meressa (2020) proposed an alternative view of financial performance. Financial performance is multidimensional and various features of financial performance should be considered to measure it. Nelson (2000) measured financial performance in five dimensions including expanded size, fixed location, cost and profit effectiveness, and exploiting new opportunities in the study. Income smoothing is the term used to know that entrepreneurs using Islamic microfinance can operate the enterprise successfully. If the entrepreneur can repay the loan without any default, the enterprise will earn a handsome amount of income (Crepon et al 2020). Income smoothing is proof of sufficient income for a new venture and repayment of the loan (Nelson 2000)

El-Komi & Croson (2013) mention enterprise resource base is an indicator of whether the resources of an enterprise are sufficient for the successful running of the business in the future or not. Investment should be done according to the nature of the business venture. The resource base of the enterprise has been based on one item investment (Nelson 2000).

## 2.1 Hypotheses

From the literature discussed above the current study has developed the following hypotheses.

- Ha<sub>1</sub>= Islamic microfinance has a significant impact on the financial performance of micro-entrepreneurs.
- Ha<sub>2</sub>= Islamic microfinance has a significant impact on the income smoothing of microentrepreneurs.

**Ha**<sub>3</sub>= Islamic microfinance impacts the enterprise resource base.

## 2.2 Conceptual framework

The conceptual framework of the current study is presented hereunder:

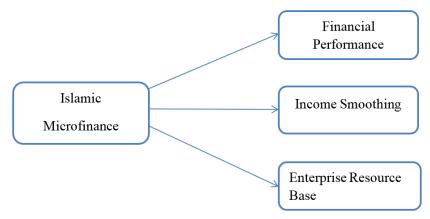


Figure 1: Study's Conceptual Framework

## 2.3 Econometric Model

The econometric model designed for the empirical testing in the current study is as follows:

 $\begin{array}{l} Y_{1=} \alpha_{0} + \beta_{1} \text{gender} + \beta_{2} \text{ age} + \beta_{3} \text{education} + \beta_{4} \text{ no of dependents} + \beta_{5} \text{ experience} + \beta_{6} \text{ mode of finance} + \beta_{7} \text{ type of} \\ & \text{area} + \beta_{8} \text{ MC} + \epsilon_{1} \dots & (1) \end{array}$   $\begin{array}{l} Y_{2=} \alpha_{0} + \beta_{1} \text{gender} + \beta_{2} \text{ age} + \beta_{3} \text{education} + \beta_{4} \text{ no of dependents} + \beta_{5} \text{ experience} + \beta_{6} \text{ mode of finance} + \beta_{7} \text{ type of} \\ & \text{area} + \beta_{8} \text{ MC} + \epsilon_{1} \dots & (2) \end{array}$   $\begin{array}{l} Y_{3=} \alpha_{0} + \beta_{1} \text{gender} + \beta_{2} \text{ age} + \beta_{3} \text{education} + \beta_{4} \text{ no of dependents} + \beta_{5} \text{ experience} + \beta_{6} \text{ mode of finance} + \beta_{7} \text{ type of} \\ & \text{area} + \beta_{8} \text{ MC} + \epsilon_{1} \dots & (3) \end{array}$ 

Where,

Y<sub>1=</sub> Financial Performance

Y<sub>2=</sub> Income Smoothing

Y<sub>3=</sub> Enterprise Resource Base

Microcredit (MC) = if the loan is taken for more than 1 year (established clients) Microcredit is assigned 1. If a loan is obtained for less than 1 year (New clients) Microcredit is assigned 0.

## 3.0 RESEARCH DESIGN OF THE STUDY

The self-administered questionnaire has been used to get data from micro-entrepreneurs (borrowers). At present 10 Islamic Microfinance Institutions are operating in Pakistan. To take borrowers' responses four main Islamic microfinance institutions: Akhuwat, Wasil, Helping Hands, and Rehabilitation Development (HHRD) were selected. For this purpose, the adapted questionnaire used was designed by SEEP (Small Enterprise Education and Promotion) and AIMS (Amanah Ikhtiar Malaysia) to collect data. The study collected 696 useable from micro-entrepreneurs (borrowers) who invested in Islamic microfinance *Shari'ah* compliance products/services offered in four IMFIs in Pakistan, to start or expand their micro enterprises (MEs). To check the reliability of measurement Cronbach's Alpha is used and found 0.75. It is above 0.7 thus it is reliable. In this study, data have been taken from the natural environment without any interference to sustain validity.

The comparative study used two approaches: the mature client approach and the Incoming or Non-clin-client approach. Both groups have the same type of people. The study used membership of clients having less than one year as a proxy for non-clients. The membership of clients for more than one year is used as a proxy for mature or established clients. The model of the study contained nine demographic variables including age, gender, previous experience, previous knowledge, type of area, mode of finance, no of dependents, and education. Established clients (for more than a year) are 58.4 percent of members and new clients (less than a year) are 41.5 percent of members. The study attempts to examine whether there is a significant difference between established clients and new clients in the context of financial performance, income

smoothening, and enterprise resource base or not using the IMF program. The comparative study is cross-sectional and analyzes the impact of microfinance on the entrepreneurial activities between established (mature) clients and new (incoming) clients.

Multinomial logistic regression is employed to investigate the effect of financing on entrepreneurial activities of micro-entrepreneurs. To handle the categorical variables of the study Logit/Probit regression an alternative log-linear approach is used. In the regression model, the assumption of linearity is not practical and allows dependent variables to take values between less than 1 and greater than zero. The extension of the linear regression model is logistic regression. Simple linear regression narrated in the form of an equation as:

$$Y_i = \alpha_0 + \beta_1 X_1 + \varepsilon_i \tag{1}$$

The logistic regression is the "prediction of the probability of Y occurring given known values of X's" (Field, 2009). The logistic model equation with P(Y) the probability of Y occurring, e the base of natural logarithms,  $\beta_n the$  regression coefficient of a variable  $X_n$  is:

$$P(Y) = \frac{1}{1 + e^{-(\alpha_0 + \beta_1 X_{1i} + \beta_2 X_{2i} + \dots + \beta_n X_{ni})}}$$

The categorical variables of the study are income smoothing, enterprise resource base, and financial performance. The current study has given a score of 1 for an increase in income smoothing, enterprise resource base, and financial performance, a score of 2 for no impact of categorical variables, and a score of 3 for having no knowledge about the increase or decrease of enterprise development after getting microfinance. Therefore Y in multinomial regression is narrated in the current study as

$$Y = \begin{cases} 1 & \text{if } Y > 0 \\ 2 & \text{if } Y \le 0 \end{cases}$$
(3)

The independent variable of the study is the category of the client using micro credit. Moreover, age, gender, type of area, mode of financing, previous experience, and previous knowledge of the client are the control variables of the study.

k-1 model is estimated in Multinomial regression that indicates the levels of the outcome variable. In this study, group No. 2 is a referent/base group, and therefore estimated of the multinomial logit is that for a 1 % change in predictor variable, the logit of outcome m variable relative to referent group is supposed to vary by its respective parameter taking the other variables held constant. If the value of the logistic coefficient is closer to zero, the logit is less influenced by the predictor.

STATA and SPSS statistical software packages are used to empirically analyze the influence of Islamic microfinance on micro-entrepreneurship development by examining entrepreneurial activities. Entrepreneurial activities include financial performance, income smoothening, increase in enterprise resource base.

#### 3.1 Profile of Micro Entrepreneur

Table 3.1 reports the statistical summary of the sample. Results revealed that 96% of respondents took microfinance. 30% out of this 96% took microfinance for the startup of the new venture while the remaining 66.68% used Islamic finance for the expansion of existing businesses Most of the respondents have started their businesses including tailoring, food corner, general stores, and beauty parlor. The majority of the respondents who participated in the study are married, under the age of 40, illiterate, or with primary education but all religiously active Muslims. Their family size is large comprised of 5 or more than 5 persons. They have no awareness of modes of Islamic financing. They rely upon their businesses for income and their financing performance is good because they repay their debts regularly. Furthermore, they use Mudarabah and Qard-e-Hasana for borrowing and repaying the debt through monthly installments. They take microfinance from 10,000 to 75,000 from Islamic institutions.

Variables	Description	Frequency	Valid %	Mean	Mode	S.D	
The time period of	New client	289	41.5				
membership	Established client	407	58.4				
Type of Area	Urban	419	60.2				
Type of Alea	Rural	277	39.8				
	Qard e Hassana						
	Murabahah						
Mode of Financing	Mushraka						
	Mudarbah						
	Salam						
	Male	525	75.4				
Gender	Female	171	24.6	1.25	1	.431	
	Total	696	100				
	18-25	69	9.9		2		
	25-35	288	41.4				
Ago Group	35-45	244	35.1	2.55		.901	
Age Group	45-55	79	11.4	2.55		.901	
	Above 55	16	2.3				
	Total	696	100				
	Single	99	14.2		2		
Marital	Married	590	84.8				
Status	Widowed	2	.3	1.88		.407	
Status	Divorced	5	,7				
	Total	696	100				
	Primary	346	49.7				
	Secondary	129	18.5				
	Matric	145	20.8			1 21	
Qualification	Intermediate	41	5.9	2.03	1	1.31 0	
	Diploma	3	.4			U	
	Any other	32	4.6				
	Total	696	100.0				
Number of Dependents	None	17	2.4	4.22	5	1.04	
Number of Dependents	1	39	5.6	4.22	Э	8	

**Table 3.1: Descriptive Statistics of Micro Entrepreneurs** 

	2	103	14.8				
	3	153	22.0				
	4 or more	384	55.2				
	Total	696	100.0				
	Wage	149	21.4				
	Pension	16	2.3				
	Social Assistance	15	2.2				
Major Income Source	Income from Business	498	71.6	3.33	4	1.29 1	
	Income from Agriculture	12	1.7				
	Income from Rent	3	.4				
	Any other specify	3	.4				
	For agriculture	2	23				
	For business start-up	209	30		3		
	For business expansion	465	66.8				
Purpose of Borrowing	For house construction	8	1.1	2.77		1.59	
	Trade Loan	2	.3				
	For Education	3	.4				
	Repayment Loan	1	.1				
	Any other	6	.9				
	purpose		.9				
	Yes	574	82.5				
Previous Experience	No	121	17.4	1.18	1	.394	
	Have no Idea	4	.1	1.10	'	.004	
	Total	696	100.0				
	Yes	364	52.3				
Previous knowledge	No	320	46.0	1.49	1	.534	
about Modes	Have no Idea	12	1.7	1.40	I	.004	
	Total	696	100.0				

## 4.0 REGRESSION ANALYSIS AND DISCUSSION OF THE STUDY

Table 4.1 reveals the results of all the dimensions including exploiting new opportunities, expanded size, fixed location, profits, and cost-effectiveness. Exploiting new opportunities includes financial expansion and increased income. The second dimension is comprised of the new product, increased workers, and increased demand. Cost-effectiveness, the third dimension consists of purchasing in bulk, efficiency in administration, and improved quality. Profit includes business money, maintaining records, and wages. A fixed location is composed of a location for production and a location for storage. There is a significant difference between established and new clients in the context of expansion of business due to the participation in the program but the variation in income between established and new clients is not statistically significantly different. Entrepreneur takes finance for the startup of business or expand the current setup. One of the aims of an entrepreneur is to create or increase the demand for the product to generate revenue. One of the possible ways to increase revenue is to purchase

the stock in bulk, which leads to reducing the marginal cost per unit. Results of the study show that increased demand for the product is significant at a 1 percent level of significance in dimensions of financial performance.

In response to the increase in the demand for products, entrepreneurs put a lot of effort into the development of new products. Therefore, development of new products is statistically positively significant in the financial performance of both sample groups of the study. The source of income of entrepreneurs is one and it is the earnings of the business. Therefore, they can't segregate the money from household activities. A lion's share of their earnings is utilized in running their homes as compared to improvement in enterprise operations. In addition to that, entrepreneurs are reluctant to add new products because the business setup is too small to hire new workers. It is a common observation that the entrepreneur himself organizes the operations of the business therefore; hiring new workers does not contribute significantly to the financial performance of the enterprise. Similarly, entrepreneurs do not manage a separate place for storing inventory. They may store products usually at home and sometimes the wastage or damage of products happens in the absence of storage facilities. If storing facilities are available to entrepreneurs, they may contribute to increasing their revenue. Therefore storing inventory is statistically significant for the financial performance of entrepreneurs.

To reduce the default rate, entrepreneurs are being advised by banks to maintain a record of profit and cost. The strict monitoring mechanism of banks positively contributes to the financial performance of enterprises and the survival of entrepreneurs. Moreover, other variables including gender, type of area, previous experience, number of dependents, and modes of financing are also significant in various dimensions of financial performance. Similarly, a significant difference between established and new clients has been observed in Islamic modes of microfinancing. The financial performance in the context of the addition of new products, profit and cost analysis, and efficient administration are not significant. One of the possible causes is entrepreneurs are not trained. They have no guidance about the management of money earned through enterprise. Their decisions regarding the reinvestment of money in some cases are not appropriate (Berguiga et al 2020). On the other hand, rest of the dimensions of financial performance including financial expansion, improved quality, new products, and purchases in bulk are statistically significant and support the hypothesis that microfinance contributes significantly to increasing the financial performance of entrepreneurs. (Meressa 2020).

Table 4.2 reports that the monitoring and follow-up mechanism of all microfinance institutions is appropriate for the recovery of borrowings. The recovery rate of financial institutions is more than 90 percent. Maximum participation of clients in the repayment of loans is evidence that the venture's earnings are high. A clear significant difference between established and non-established clients has been seen in the context of repayment. In addition to those variables including mode of financing, previous experience, number of dependents, type of area, and gender are significantly different between established and new clients. Money for operating an enterprise is significantly indifferent between established clients and new clients.

#### Impact on Financial Performance Depen Knowl Consta likelihoo Exp Area Client Chi-sq Sig R<sup>2</sup> gender Age Educ Mode ds edge d nt Coeff .222 -.218 .037 .1696 -.8607 -.8147 -1.110.1034 0.8381 3.314 Financial Expansio SE .2656 .1160 .082 .1003 .2762 .2061 .2286 .2174 0.1846 .9593 -418.66 119.23 0.00 0.124 0.403 0.059 0.091 0.002 0.000 0.000 0.634 0.000\*\* 0.001 Sig. 0.64 n Coeff 0.6909 -0.381 0.16 0.128 -1.407-.6046 1.017 -0.138 0.507 3.248 Increased 0.552 SE 0.204 0.17 0.184 0.436 0.379 0.556 0.416 0.352 1.793 234.375 75.02 0.00 0.138 Income Sig. 0.211 0.062 0.34 0.489 0.001 0.111 0.068 0.741 0.150 0.070 Coeff 0.525 -0.169 0.00 0.356 -0.127 0.0185 0.595 0.690 0.386 -3.267 New SE 0.237 0.097 0.07 0.084 0.255 0.171 0.197 0.181 0.151 0.826 -436.07 103.22 0.00 0.106 Product Sig. 0.027 0.080 0.003 0.000 0.011\* 0.000 0.99 0.000 0.618 0.913 Coeff 0.678 0.032 -0.06 0.167 -1.068 -0.482 -1.086 -0.135 0.214 0.446 Increased 0.07 0.925 SE 0.244 0.109 0.193 0.229 0.202 0.159 84.00 0.000 0.101 0.101 0.349 -373.18 workers 0.005 0.765 0.000 0.506 0.630 Sig. 0.42 0.099 0.002 0.013 0.180 \*indicates Coeff 1.379 -0.080 0.20 0.236 -0.903 -0.249 -0.698 -0.135 0.686 0.586 a 10% SE 0.404 0.148 0.11 0.119 0.351 0.261 0.297 0.279 0.236 1.196 level of significanc e. \*\* indicates a 5% level of 0.0000 -511.78 131.25 0.114 significanc 0.004\*\*\* 0.001 0.586 0.07 0.048 0.010 0.339 0.019 0.630 0.624 Sig. e, and \*\*\* indicates a 1% level of significanc elmprove d Quality -0.139 -0.206 0.09 0.148 -1.414-0.002 0.583 0.675 -0.009 0.933 Coeff Increased SE 0.286 0.127 0.09 0.108 0.306 0.227 0.294 0.243 0.203 1.032 -642.28 127.61 0.000 0.090 Demand Sig. 0.626 0.105 0.33 0.171 0.000 0.994 0.047 0.006 0.964 0.366 Coeff -0.457 -0.309 -0.20 0.145 -1.175 0.218 0.702 -0.818 0.415 3.119 Purchase 0.255 0.112 0.07 0.098 0.277 0.204 0.239 0.219 0.174 0.923 149.21 0.000 0.126 SE -515.09 d in Bulk 0.073 0.285 0.003 0.000 0.017\*\* 0.001 Sig. 0.006 0.00 0.141 0.000 -0.300 -0.147 0.05 0.234 -0.988 0.575 -0.102 0.235 2.064 Efficiency Coeff -0.052 in SE 0.322 0.144 0.10 0.119 0.324 0.256 0.320 0.277 0.228 1.153 -404.44 100.16 0.000 0.110 Administr 0.073 0.351 0.308 0.61 0.050 0.002 0.841 0.713 0.303 0.073 Sig. ation

#### Table 4.1

Business	Coeff	0.570	226	054	0.075	-0.714	-0.6746	-1.215	-0.227	0.239	2.641				
money separate	SE	0.219	0.096	0.06	0.083	0.269	0.170	0.194	0.178	0.1399	0.790	-505.69	198.44	0.000	0.164
	Sig.	0.009	0.019	0.41	0.369	0.008	0.000	0.000	0.201	<b>0.087</b> <sup>*</sup>	0.001				

\*indicates a 10% level of significance, \*\* indicates a 5% level of significance, and \*\*\* indicates a 1% level of significance

Maintain	Coeff	0.795	-0.339	-0.09	0.063	-0.422	-0.565	-1.95	-0.785	-0.149	5.179				
Record	SE	0.239	0.999	0.06	0.089	0.266	0.178	0.206	0.186	0.148	0.846	-505.69	198.44	0.0000	0.1640
Necolu	Sig.	0.001	0.001	0.77	0.470	0.113	0.001	0.000	0.000	0.312	0.000				
You get	Coeff	0.542	-0.352	-0.07	0.357	-0.681	-1.048	-2.353	-0.464	-0.572	5.546				
-	SE	0.247	0.107	0.07	0.099	0.293	0.198	0.238	0.195	0.167	0.943	-493.14	234.18	0.000	0.191
wage	Sig.	0.028	0.001	0.30	0.000	0.020	0.000	0.000	0.017	0.001***	0.000				
Location	Coeff	-2.501	0.175	090	.0469	-1.030	0.263	0.455	0.709	0.355	2.420				
for	SE	0.244	0.123	0.07	0.101	0.260	0.214	0.245	0.222	0.196	0.936	-387.87	238.72	0.0000	0.2353
production	Sig.	0.000	0.156	0.24	0.642	0.000	0.220	0.064	0.001	0.071**	0.010				
Location	Coeff	-0.978	0.042	0.10	0.056	-0.886	-0.460	-0.837	0.026	-0.298	3.909				
for storing	SE	0.222	0.095	0.06	0.083	0.271	0.165	0.181	0.176	0.136	0.795	-516.55	137.27	0.0000	0.1173
	Sig.	0.000	0.653	0.09	0.498	0.001	0.005	0.000	0.880	0.028***	0.000				

\*indicates a 10% level of significance, \*\* indicates a 5% level of significance, and \*\*\* indicates a 1% level of significance

Impact on Income Smoothening												
-	The prob er	lem in op nterprise	erating		Duratior	ı	Problem	Problem in repayment				
	Coeff	SE	Sig	Coeff	SE	Sig	Coeff	SE	Sig			
Sex	.1473	.2321	0.526	.2916	.4108	0.478	1199	.3264	0.713			
Age	.1968	.1038	0.058	043	.1737	0.802	.0709	.1395	0.611			
Education	.0165	.0715	0.817	031	.1195	0.793	0148	.0987	0.880			
Dependents	3593	.0847	0.000***	.2336	.1636	0.153	2295	.1166	0.049**			
Prev Exp	.4953	.2427	0.041**	145	.5052	0.774	.6997	.3200	0.029**			
Prev Know	.0109	.1794	0.951	.7664	.3114	0.014**	.3850	.2410	0.110			
Area	6285	.2084	0.003***	134	.3780	0.723	2635	.2804	0.347			
Mode	6492	.1940	0.001***	724	.3382	0.032**	4596	.2636	0.081*			
Client	.4600	.1509	0.002***	.3399	.2692	0.207	.0587	.2100	0.780			
Constant	.4162	.80044	0.605	-1.27	1.5042	0.395	-1.425	1.106	0.198			
Goodness of	fit											
Log Likelihood	-558.492			-468.8			-445.38					
Chi-Square	137.41			76.25			92.12					
Sig	0.000***			0.000			0.0000					
Pseudo R <sup>2</sup>	0.1095			0.0752			0.0937					

#### Table 4.2: Impact of Micro Credit on Income Smoothing

\*indicates a 10% level of significance, \*\* indicates a 5% level of significance, and \*\*\* indicates a 1% level of significance

Table 4.3 reports that religious people actively participate in *Shari'ah*-compliant microfinance products thereby reducing the percentage of persons who voluntarily exclude themselves from the financial system. A deprived segment of society gets microfinance easily for activities designed to generate income and get economically dependent. They can develop their micro-enterprises or expand the existing enterprises. A significant difference at a 5% level has been observed between established and new clients. So, the rest of the variables including age, gender, previous experience, and number of dependents significantly contribute to the enterprise resource base. The variable enterprise resource base for major investments contributed significantly. The reason may be borrowers have to disclose for what purpose they are getting finance. Due to strict monitoring and follow up borrowers, spend finance on the activities they have mentioned. Ultimately, Islamic microcredit has a positive impact on the enterprise resource base. The enterprise resource base depicts mixed findings in the context of minor investment.

On the other hand, the enterprise resource base does not significantly contribute to minor investment. Established clients and new clients are not significantly different from one another at a 5 percent level.

The possible reason is that micro-entrepreneurs are not able to get sufficient finance for the start of new businesses or the expansion of existing ones. Another possible reason is that a series of priorities including type of area, previous experience, age, gender, and number of dependents is involved in spending micro credit.

Impact on Enterprise Resource Base											
		Major Invest	Minor Investment								
	Coeff SE		Sig	Coeff	SE	Sig					
Sex	-1.913	0.279	0.000***	-1.579	0.2487	0.000***					
Age	0.413	0.15545	0.008***	0.4042	0.1133	0.000***					
Education	-0.1683	0.08609	0.051**	-0.0725	0.073	0.321					
Dependents	0.4963	0.1137	0.000***	0.4427	0.0964	0.000***					
Prev Exp	-1.2232	0.2899	0.000***	-1.519	0.2911	0.000***					
Prev Know	-0.2355	0.2554	0.357	0.0775	0.1927	0.688					
Area	-0.3972	0.2745	0.148	1.4705	0.242	0.000***					
Mode	-0.2048	0.2729	0.453	0.5597	0.2022	0.006***					
Client	-0.6129	0.2101	0.004***	0.2407	0.1702	0.157					
Constant	5.3638	1.0869	0	-1.707	0.8768	0.051**					
Log Likelihood	-355.593			-487.1							
Chi-Square	213.76			249.48							
Sig	0			0							
Pseudo R <sup>2</sup>	0.2311			0.2038							

#### Table 4.3: Impact of Micro Credit on Enterprise Resource Base

\*, \*\*, \*\*\* indicate a 10% level of significance, a 5% level of significance, and a 1% level of significance, respectively.

The current study shows mixed results just like the studies of microfinance conducted in Bangladesh, India, Malaysia, Indonesia, Sri Lanka, and northeastern Thailand (Ahmad et al 2020). The negative effect of microfinance has not been observed in Pakistan.

The findings of the study reveal that micro-entrepreneurship development is possible in Pakistan through Islamic microfinance. However, Santoso et al., (2020) focus on positive experiences with rural households using microfinance in Indonesia. In Bolivia, investment in projects using microcredit fails to generate sufficient income to increase household earnings (Maldonado 2005). But still, Muslims particularly people of other religions also want products without interest, and they have a firm belief that if *Shari'ah*-compliant products are offered with true spirit and the right way then undoubtedly they will improve the economic well-being of entrepreneurs.

## 5.0 CONCLUSION

Islamic microfinance is a new but adequate approach for the marginalized segments of society, predominantly for these poor micro-entrepreneurs. The main institution of Islamic microfinance is Akhuwat, serving for more than 15 years and now has 300 plus branches all over Pakistan. Shariah-compliant products are also offered by a few NGOs including HHRD, Wasil, Naymet, Muslim Aid, and Al Huda. The sample data is collected from the borrowers of Islamic microfinance institutions through 696 self-administered questionnaires for the analyses of the study. The findings of this research suggest that IMFIs have played a positive role in promoting micro-entrepreneurship in Pakistan.

The findings of the study reveal that microfinance significantly improves annual sales, net income, major investment, repayment, and enterprise resource base. Many respondents

of the study agreed that growth in entrepreneurial activities is possible after financing from IMFIs. Islamic microfinancing contributes a lot to the survival and economic independence of entrepreneurs. This study revealed that these livelihood enterprises are contributing a lion's share of their family income. Although rest of the activities including training, entrepreneurial skills, and increased demand are not being influenced by Islamic microfinance. The reason can be that micro loans demand for a product cannot be increased remarkably and no institution is giving guidance and training to improve entrepreneurial skills at a wider scale.

Practically, the contribution of Islamic microfinance is to provide a platform for financially excluded people to get finance through *Shari'ah*-compliant products and services. The clients who participated in micro-credit have a direct and close relationship with Islamic microfinance institutions. Islamic financial institutions are community-based organizations and face a lot of challenges in making modes of Islamic finance operational. Moreover, factors including lack of *Shari'ah*-compliant funds, limited Meso-Level support legal constraints, and lack of awareness about Islamic microfinance are the main obstacles that hamper the growth of Islamic microfinance. However, today Islamic financial institutions are facing core challenges including high operational costs, difficulty in introducing new Shariah-compliant products, and lack of awareness about Islamic microfinance institutions in offering Shariah-compliant products may be conducted in the future. Islamic microfinance institutions and improvement of the living standards of the general public by becoming a link between governments and people in policy implementation.

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