# FINANCIAL INCLUSION AND FINANCIAL LITERACY

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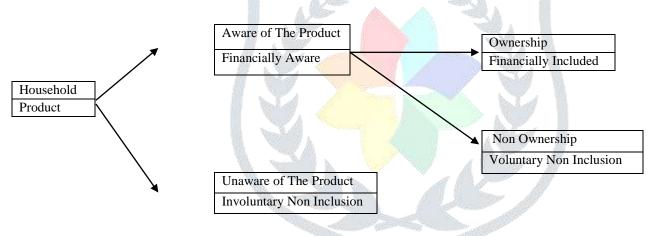
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Abstract Financial literacy is a fundamental factor for economic growth and financial stability. The lack of awareness of financial products and services offered to target population is a most common reason for exclusion from formal financial services. Thus, financial literacy is a platform for financial inclusion. The paper aims to study the extent of financial literacy and its correlation with financial inclusion for urban poor in Delhi. The findings of the paper are based on the pilot survey done on 76 respondents including class IV workers, thela waalas, domestic maid and servants and the results shows that 30% of the respondents are actually not aware of the schemes which government have initiated. Thus, despite of many initiatives being taken by the government people still depend on informal markets for their financial borrowings. Some suggestions from horses' mouth are also incorporated in this paper to help the government reach their target population.

Index Terms – Financial Inclusion, Financial Literacy

### I. INTRODUCTION

Financial Inclusion refers to access to all the adults of a nation at reasonable cost. Financial literacy is the back bone of financial inclusion. Government of India is coming up with so many innovative schemes of financial inclusion but the lack of knowledge of basic banking products acts a great barrier between the demand and supply of financial products.



#### Figure 1: Framework for Financial Inclusion Source: (Banerjee, Kumar, & Philip, 2017)

Banerjee et al. (2017) gave a framework explaining the relationship between financial literacy and financial awareness with the financial inclusion. The authors illustrated through their research that the financial exclusion can be voluntary or involuntary. An inadequate financial awareness about the existence of product keeps the households away from the financial products. In case of voluntary exclusion, inspite of being aware of the financial products and services, the households still tends to be non exclusive because of affordability, adequacy and lack of time. According to India Infoline News Service (2012) financial literacy act as a base for creating demand in the market for financial products and services and thus, is very important for expanding the inclusiveness in the financial system. It also highlighted that financial literacy with financial inclusion and consumer protection are three important pillars of stable financial system. The article discussed that financial literacy not only includes saving and withdrawal rather it refers to being financially smart and manage the cash flow wisely and efficiently. Thus, emphasis has been given to make financial literacy as a part of school course curriculum.

The RBI recently has observed financial literacy week from June 4-8, 2018 (RBI, n.d.) and has uploaded the material on its website for consumer protection. The messages were based on risk and return, good practices for safe digital banking experience, banking ombudsman and know your liability for unauthorized electronic banking transactions. Another initiative taken by RBI towards financial literacy is FAME (Financial awareness messages) which is a booklet in 13 different languages, which contains financial awareness messages about 11 financial products including neutral financial awareness messages like KYC documents, saving and borrowing responsibility, credit score, lodging complaint, etc. The financial literacy week majorly targets farmers, school children, entrepreneurs, SHGs( Self Help Groups) and senior citizens(RBI, n.d.).

#### II. Status of Financial Literacy in India

According to Standard & Poor's Financial Services LLC (2015) report, the status of Indian society in terms of financial literacy is very alarming. The agency has observed that literacy level is very low with the population having some specific demographic factors, like women, individuals who are less educated and less qualified, low income households and senior citizens. Thus, it was concluded that population with such characteristics are the ones who are majorly excluded from the financial system. The report exhibited approximately 76% of Indian adults do not adequately understand basic financial concepts. The rate is far below the world's average financial literacy rate. The report also highlights the highest literacy rate in Singapore as 59% in Asia. In the developed countries like Australia, Denmark, Germany, Sweden, Canada, the literacy rate was found to be 65%. The Standard & Poor's Financial Services LLC (2015) also found that in comparison to males, females are less literate and secondly the financial literacy level is very low in adults aging more than 65 years.

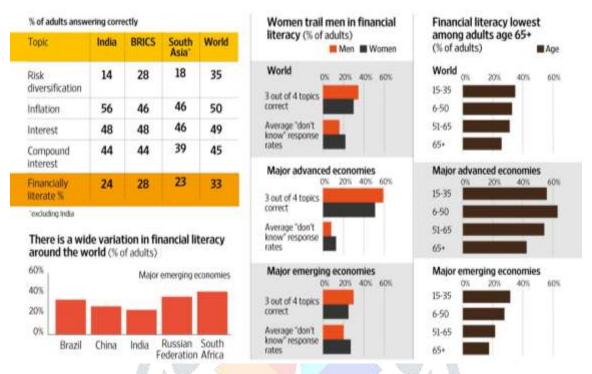


Figure 2: Findings from the survey (Standard & Poor's Financial Services LLC, 2015)

#### **III. THEORETICAL FRAMEWORK**

Financial Literacy refers to adequate knowledge of financial concepts and its application to carry out effective and productive decisions related to money matters. According to Babych, Grigolia, & Keshelava (2018), individuals' ability to understand and use financial concepts plays a vital role in taking advantage of opportunities available in financial system and accomplishing economic empowerment by hedging risk in proper manner.

Modigliani (2005) discussed the life cycle hypothesis (LCH). The theoretical framework revolves around the concept of savings and consumptions. According to LCH, the savings and consumptions pattern of an individual is based on the law of marginal utility. Thus, an individual has the required financial knowledge that maximizes their utility at every point over one's lifetime (Lusardi & Mitchell, 2014). According to Friedman (1957); Lusardi & Mitchell (2014), the consumption pattern of an individual depends on his current and future income. When consumption exceeds income, the difference is observed as borrowings and conversely when income exceeds consumption, the difference is observed as savings. Therefore, the households should focus on savings for experiencing smooth consumption in future when income falls(Modigliani, 2005).

Researchers have defined financial literacy as the knowledge of application of financial concepts for money management in informed and productive manner (Atkinson & Messy, 2013). The studies have found a positive and significant relationship between financial literacy and financial behavior. A financially literate individual is expected to have a better cash management and credit management and also exhibits good credits score (Hilgert, Hogarth, & Beverly, 2003). Similarly, the consumers who are less literate or holding less financial knowledge ends up accumulating debt due to poor credit choice (Ricaldi, Finke, & Huston 2013). Thus, the studies confine that there is a critical requirement of financial literacy for choosing suitable and cost effective debt instrument. The level of financial literacy from the point of view of individuals or families can have an impact on the ability to have long-term savings used to own assets, fulfillment of higher education and old-age funds. Ineffective money management will have an impact on family financial crisis (Braunstein and Welch, 2002).

Thus, according to a comprehensive definition given by OECD (2011)

"Financial literacy is a combination of the awareness, knowledge, skills, attitude and behaviour necessary to make sound financial decisions and ultimately achieve individual financial wellbeing"

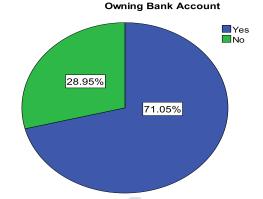
Camisón-haba, Antonio, & Almendros (2018) said the adoption of financial decisions requires the possession of a series of skills and the deployment of a certain set of behaviors by the consumer or the investor, in order to obtain satisfying results. The most frequently used concept to appoint the activity or process carried out to achieve these requirements, the resulting product or the level of instruction achieved, is generally that of financial education.

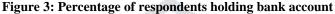
#### **IV. Research Methodology**

The study is based on pilot survey done on 76 respondents to analyze the awareness about basic financial products, namely pension fund, investment fund, mortgage, secured bank loan, unsecured bank loan, credit card, debit/ ATM card, current account, saving account,

microfinance loan, Insurance products and mobile banking and secondly to analyze the relationship between financial literacy and financial inclusion. For analysis of data, crosstab was used to show the relationship between the awareness of the financial products amongst urban poor in Delhi and whether they are possessing the financial product or availing the basic banking services. The following section deals with the analysis, findings and interpretation of the data.

#### V. Data Analysis, Findings and Interpretation





After data collection and analysis it was found that approximately 30% of the sample population is without bank account (refer figure 1). Further, the data was collected to check the awareness amongst urban poor of Delhi about the basic financial products and whether they are able to take the benefits of various schemes and initiatives taken by the government for the upliftment of disadvantage society. The following is the analysis of various products and its awareness amongst urban poor and whether they are processing it.

**Pension Fund:** The first basic financial product was taken as pension fund. Respondents were asked whether they are aware of pension fund and if they are holding any pension fund account.

Awareness about Pension Fund		Table	1: Awareness about Pension Fund * Holdin Crosstabulation	g Pension a	account	
	Holding Pension account			Holding acco		
40-	Yes 🚽			Yes	No	Total
	No Awarene	Yes	Count	7	25	32
	ss about		Expected Count	2.9	29.1	32.0
то то со со со со со со со со со со со со со	Pension Fund		% within Awareness about Pension Fund	21.9%	78.1%	100.0%
3 21			% within Holding Pension account	100.0%	36.2%	42.1%
20-		No	Count	0	44	44
	L.		Expected Count	4.1	39.9	44.0
10- 25	-		% within Awareness about Pension Fund	.0%	100.0%	100.0%
7			% within Holding Pension account	.0%	63.8%	57.9%
	Total		Count	7	69	76
Figure 4: Awareness about Pension F	bund		Expected Count	7.0	69.0	76.0
i igure i i rivareness about i ension i	una		% within Awareness about Pension Fund	9.2%	90.8%	100.0%
			% within Holding Pension account	100.0%	100.0%	100.0%

Figure 2 depicts that 44 respondents out of 76 were not aware of pension fund. Only 42% (32 respondents) were aware of pension fund and only 9% (7respondents) were holding pension fund account.(refer table 1). The figure shows majority of the population being unaware of the existence of the pension fund account.

**Investment Fund Account:** The respondents were asked about their ways of investment and their awareness about any investment schemes which have been launched by government, like – Post office account, Public Provident Fund, etc.

	Aware of Investment Fund					re of Investment Fund * Holding Cross tabulation	Investment f	und account
							Holding Investment fund account	Total
60-							No	
						Count	14	14
						Expected Count	14.0	14.0
tu <sup>40−</sup>					105	% within Aware of Investment Fund	100.0%	100.0%
Ŭ		62		Aware of Investme		% within Holding Investment fund account	18.4%	18.4%
20-				nt Fund		Count	62	62
					No	Expected Count	62.0	62.0
	14					% within Aware of Investment Fund	100.0%	100.0%
	Yes	No		r		% within Holding Investment fund account	81.6%	81.6%
	Figure 5: Aware of In	vestment Fund				Count	76	76
	-		V.S	2		Expected Count	76.0	76.0
			r			% within Aware of Investment Fund	100.0%	100.0%
			No.	r		% within Holding Investment fund account	100.0%	100.0%

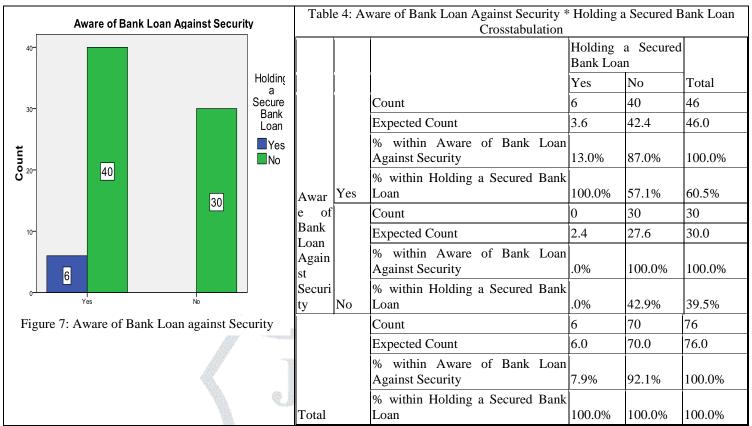
As exhibited in figure 3, only 14 respondents (18.4%) were aware of investment fund account (majorly post office account). 82% respondents were unaware of the existence of various investment funds options. But none of the respondents reported to be investing in any of the investment fund account (majorly post office account).

Mortgage: The respondents were asked if they were aware of mortgage loan, i.e if they are aware that bank is providing loan against property.

Aware of Mortgage		Ta <mark>ble 3</mark>	: Aw	n Crosstabulation			
60- Hold a	Real				Hold a l loan	Hold a Mortgaged loan	
Mortgaged					Yes	No	Total
<sup>50-</sup> Yes	1.2			Count	5	19	24
40-	200			Expected Count	1.6	22.4	24.0
tro, 30-				% within Aware of Mortgage	20.8%	79.2%	100.0%
<b>Š</b> <sup>30-</sup> 52			Yes	% within Hold a Mortgaged loan	100.0%	26.8%	31.6%
20-				Count	0	52	52
				Expected Count	3.4	48.6	52.0
10- 19		Aware of		% within Aware of Mortgage	.0%	100.0%	100.0%
0 Ves No		Mortgag e	No	% within Hold a Mortgaged loan	.0%	73.2%	68.4%
Figure 6: Awareness of Mortgage Loan				Count	5	71	76
				Expected Count	5.0	71.0	76.0
				% within Aware of Mortgage	6.6%	93.4%	100.0%
		Total		% within Hold a Mortgaged loan	100.0%	100.0%	100.0%

As observed in table 3, 73.2% (52 respondents) respondents were not aware of mortgaged loan. Out of 19 respondents (22.4%) only 5 respondents reported of availing loan against mortgage of property (Figure 4).

Secured bank Loan: Respondents were surveyed to know the level of awareness amongst them for secured bank loan and if they have availed any?



It was good to observe (table 4) that approximately 61% respondents (46respondents) were aware of secured loan but only 6 respondents (Figure 5), 7.9% of total respondents have availed it.

Unsecured Bank Loan: The respondents were enquired about their awareness level about unsecured loan and if they have availed unsecured bank loan.

Aware of Unsecured Bank Loan	Table 5: Aware of Unsecured Bank Loan * Holding any Unsecured Bank LoanCrosstabulation								
50-	Holding				Loan	ed Bank			
Ba	nsecured ank Loan			Count	Yes 6	No 10	Total 16		
	Yes No	Aware of Unsecure d Bank		Expected Count	1.3	14.7	16.0		
te 30-			Yes	% within Aware of Unsecured Bank Loan	37.5%	62.5%	100.0%		
20-				% within Holding any Unsecured Bank Loan	100.0%	14.3%	21.1%		
				Count	0	60	60		
		Loan		Expected Count	4.7	55.3	60.0		
			No	% within Aware of Unsecured Bank Loan	.0%	100.0%	100.0%		
Yes No Figure 8: Aware of Unsecured Loan				% within Holding any Unsecured Bank Loan		85.7%	78.9%		
				Count	6	70	76		
				Expected Count	6.0	70.0	76.0		
		Total		% within Aware of Unsecured Bank Loan	7.9%	92.1%	100.0%		
				% within Holding any Unsecured Bank Loan		100.0%	100.0%		

Figure 6 depicts that approximately 79% of the respondents (60 respondents) were unaware of unsecured bank loan. Only 21% (10 respondents) were aware of the unsecured bank loan and out of them only 6 people were availing unsecured bank loan, like bank overdraft.

Credit Card: The respondents were asked about their awareness about credit card and if they hold one?

	Aware of Cr	edit Card		Table 6:Av	ware of	f Credit Card * Holding Credit	Card Crossta	bulation
50-							Holding Credit Card	
							No	Total
40-			A	ware of	Yes	Count	44	44
			C	Credit Card		Expected Count	44.0	44.0
ount ™						% within Aware of Credit Card	100.0%	100.0%
ŭ	44					% within Holding Credit Card	57.9%	57.9%
20-		32			No	Count	32	32
						Expected Count	32.0	32.0
10-						% within Aware of Credit Card	100.0%	100.0%
						% within Holding Credit Card	42.1%	42.1%
0	Yes	No	T	otal		Count	76	76
Figure 9:	Awareness of	Credit Card				Expected Count	76.0	76.0
-						% within Aware of Credit Card	100.0%	100.0%
						% within Holding Credit Card	100.0%	100.0%

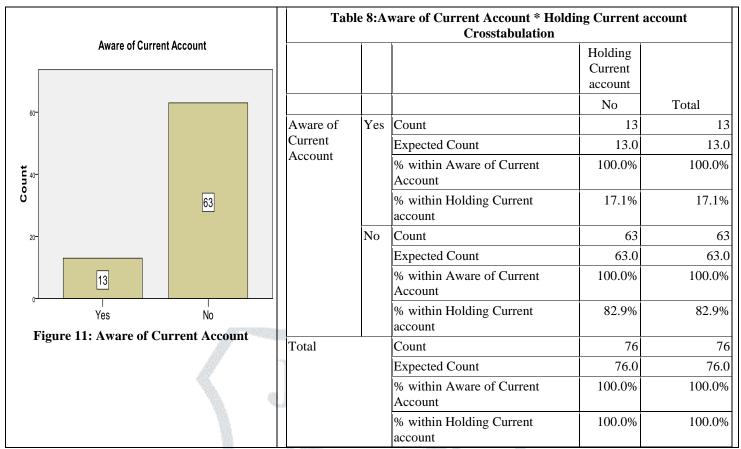
Figure 7 shows that 44 respondents (58%) are aware of the existence of the product but none reported to hold any credit card.

				1			
Debit/ ATM Card: The respondent	ts were aske	d about th	eir knowledge	about	ATM/ Debit	card and if the	y are holding any ATM/ Debit
Card?							

Aware of Debit/ATM card	Tabl	e 7:A	ware of Debit/ATM card * Hol Crosstabulation	ding Deb	it/ATM ca	ırd
Holding				Holding Debit/AT	M card	
30- card				Yes	No	Total
			Count	25	37	62
	Debit/ATM		Expected Count	20.4	41.6	62.0
	card		% within Aware of Debit/ATM card	40.3%	59.7%	100.0%
10-			% within Holding Debit/ATM card	100.0%	72.5%	81.6%
		No	Count	0	14	14
Yes No			Expected Count	4.6	9.4	14.0
Figure 10: Awareness about Debit/ ATM Card			% within Aware of Debit/ATM card	0%	100.0%	100.0%
			% within Holding Debit/ATM card	0%	27.5%	18.4%
	Total		Count	25	51	76
			Expected Count	25.0	51.0	76.0
			% within Aware of Debit/ATM card	32.9%	67.1%	100.0%
			% within Holding Debit/ATM card	100.0%	100.0%	100.0%

As exhibited in figure 8, 62 respondents (82%) were aware of Debit card/ ATM card and out of these, 25 respondents were holding debit/ ATM card.

Current Account: The respondents were enquired about their awareness and possession about current account.



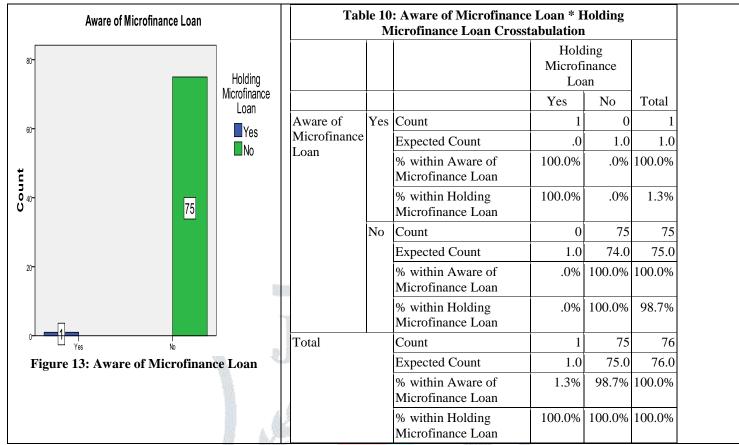
As shown in Figure 9, 63 respondents (approx. 83%) were not aware of the current account. Also none of the respondents reported to hold any current account.

Saving Account: The respondents were asked about their awareness level related to saving account and if they are holding any saving account with any bank?

Aware of Saving Account		Table	e 9:A	ware of Saving Account * 1 Crosstabulatio		aving Ac	count
60-	Holding Saving				Holding Acco	-	
	Account				Yes	No	Total
50-	Yes	Aware	Yes	Count	54	15	69
	No	of Saving		Expected Count	49.0	20.0	69.0
40-		Account		% within Aware of Saving Account	78.3%	21.7%	100.0%
				% within Holding Saving Account	100.0%	68.2%	90.8%
54			No	Count	0	7	7
20-				Expected Count	5.0	2.0	7.0
				% within Aware of Saving Account	.0%	100.0%	100.0%
10-				% within Holding Saving Account	.0%	31.8%	9.2%
		Total		Count	54	22	76
Yes № Figure 12: Awareness of Saving Account				Expected Count	54.0	22.0	76.0
				% within Aware of Saving Account	71.1%	28.9%	100.0%
				% within Holding Saving Account	100.0%	100.0%	100.0%

As depicted in figure 12, majority of the population (91% respondents- refer table 9) were aware of saving account. 71% of the population possessed a saving account.

Microfinance Loan: The respondents were asked about their awareness level related to microfinance loan and if they are availing any microfinance loan?



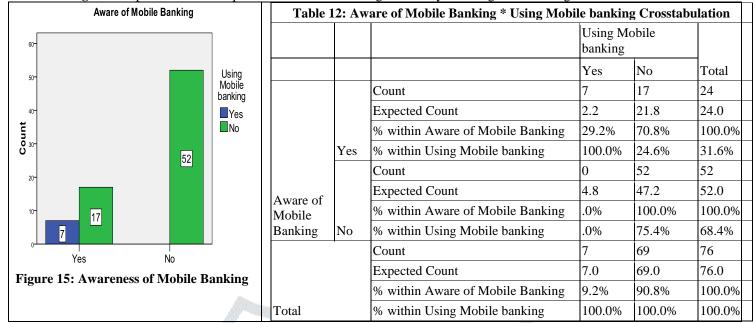
Only one respondent out of 76 respondents was aware and was holding the microfinance loan (Refer Figure 13 and Table 10). So 99% of respondents were neither aware nor have availed microfinance loan.

Insurance: Respondents were asked about their awareness about Insurance products which have been launched by government for insuring
the poor. Like- Suraksha Bima Yojna and Jeevan Jyoti Bima Yojna and whether they are holding any insurance product.

[	Aware	of Insurance Products	Holding	Ta	ble 1	1: Aware of Insurance Products * Crosstabulation	Holding a	ny Insural	nce
30-			any Insurance				Holdin Insura		
			Yes				Yes	No	Total
			No	Aware of	Yes	Count	19	27	46
20-				Insurance		Expected Count	11.5	34.5	46.0
Count		30		Products		% within Aware of Insurance Products	41.3%	58.7%	100.0%
0	27					% within Holding any Insurance	100.0%	47.4%	60.5%
10-	19				No	Count	0	30	30
	19					Expected Count	7.5	22.5	30.0
						% within Aware of Insurance Products	.0%	100.0%	100.0%
						% within Holding any Insurance	.0%	52.6%	39.5%
0	Yes	No		Total		Count	19	57	70
Fig		re of Insurance Pr	oducts			Expected Count	19.0	57.0	76.0
6	,					% within Aware of Insurance Products	25.0%	75.0%	100.0%
						% within Holding any Insurance	100.0%	100.0%	100.0%

Although 46 respondents (61% respondents) were aware of insurance schemes (Figure 14) which are introduced by the government for the disadvantage section and 41% (19 respondents) of them were holding the insurance products. Unfortunately, 40% of the respondents were not aware of such benefit and thus, have not been able to avail the benefits.

Mobile Banking: The respondents were enquired about mobile banking and if they are using it for banking transactions.



As shown in Table 12, approximately 70% of the respondents were not aware of the mobile banking. Out of remaining 30% respondents (24 respondents), 9% respondents (7 respondents) were using the mobile banking for financial transactions.

Product	Aw	areness abo	out the Pro	duct 🔪	Holding the product				
	Y	Yes		No 🌙	Y	es	No		
	Count	Count In %		Count In %		In %	Count In %		
Pension fund	32	42.1	44	57.9	7	9.2	69	90.8	
Investment Fund	14	18.4	62	81.6	0	0	76	100	
Mortgage	24	31.6	52	68.4	5	6.6	71	93.4	
		Stand St.				8			

## VI. CONCLUSION

The study has been conducted to analyze the effect of financial literacy on the consumption patter of urban poor in Delhi. The study concludes that financial literacy is the first step towards financial inclusion. The study is in line with the findings of Babych et al. (2018) which explains a positive relationship between financial literacy and education and income level of an individual. The present study has analyzed that because of knowledge of saving account and ATM card, people are possessing the product and also using it unlikely mobile banking, microfinance loan, investment fund, unsecured loan. The study also accepts that the financial literacy is not the only reason for not holding the financial product. The major reason backed by not holding these products is low income or insufficient income. It was also observed that although majority of population was aware of availability of secured bank loans but very few opted for the option. The reason reported by the respondents was lack of trust and the family culture is more towards borrowing money from informal sources or money lenders existing in their society.

## **VII. RECOMMENDATION**

The government needs to open more financial literacy centres, probably at every bank or petrol pump to increase the awareness level of financial products amongst poor people. A special news program can be allotted to be telecasted in T.V or radio dedicated on government initiatives taken towards spreading financial inclusion and financial literacy amongst disadvantage group, also highlighting the benefits of being part of formal financial system. As suggested by Babych et al. (2018) a strategy can be formulated to raise the level of financial literacy by targeting the vulnerable segment of society, like students, unemployed population, class IV workers employed with large companies, rural and urban rural population, people facing special life events like: child birth, wedding, university education, etc. The authors also suggested a special training for teachers so that it can be successfully imparted in schools.

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