

The Role of E-Banking and Commercial Bank in India – Case Study

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Abstract: The perceive became significant due to the multiplied adoption of the digital bankingwhich has redefined the banking provider both in India and across the world. Electronic banking turned into proxiedby means of value of Point-of-Sale transactions whilst business banking overall performance turned into proxied through customers' deposits. Engle-Granger cointegration version was used to research records for the pattern period January 2009in December 2013. The results show that POS isn't always cointegrated with both the financial savings and time depositsbut are cointegrated with demand deposits. It is usually recommended that the financial authorities and commercial banks should embark on an allinclusive enlightenment marketing campaign for the banking public on theblessings, comfort, and importance of adopting e-banking channels in finishing their transactions.

Keywords-

I. INTRODUCTION

The affection of era in business the beyond left as an uncompleted puzzle. The lack of itsattention evolved to a deeper effect in these days. Developments in era touched also he financial institution department, giving birth to a new product known as online banking or ebanking. What anonline banking gives is a possibility to perform distinct bank operations, in which a customercan get right of access to his or her bank account thru the Internet. Such operations may be performed at a variety of utilization from personal pc to a mobile phone. Customers can take a look at the modern account, saving the account, transfer cash and make their payments. Online banking utilization is becomingvery commonplace due to the increase of utilization of computers and mobiles which avail the transfers.Despite doubts at its first introduction, customers took time to modify their activities with thistechnology. On the alternative hand, there was some unsure mind whether online banking isvisible extra as a supplement in preference to an alternative product. Nevertheless, most of the people of banksin recent times are supplying it and custumers most importantly

locate it useful. Online banking becameinitiated as an exclusive way of banking and much less expensive. In the customers' angle, it meantless time to spend. The majority of costumes at the start had been confronted with a fewdifficulties but after a period it was very effective; while from the bank's point of view on thebeginning that they had a few rate and feared for a large loss. According to some studies, effectsfor adoption of online banking generally would come after or three years. In the literatureoverview, we can gift the studies that provide theoretical and empirical evaluation touching on ourtake a look at.After the third decade of the first online banking users inside the USA, important research followed coverageimplications, rules, legal guidelines and banks types. Luckily nowadays, studies befell also for the elementof Europe and followed with our specifics policy implication, styles of banks, small, big, commercial, home, foreign and linking to the bank performance indicators.

II. RELATED WORK

In this bankruptcy, we will offer with profound studies handling the net banking adoptionand their empirical evaluation. We will emphasize the maximum essential and relative ones to ourobservations. The paper of Ceylan, Emre, Ash Deniz (2008) analyzes the net banking overall performance inTurkey. During a period of time from 1996 to the 12 months 2000, it took into attention 14business and financial savings financial institution. The authors have used ROE (return on fairness), ROA (go back onasset) and MARGIN as a performance variable. The analysis concluded that inside the first 12 months of adoption typically there may be no advantageous overall performance; it takes or three years to reach a goodperformance. The outcomes display that the ROE has a nice result in the second 12 months of adoption.

There is likewise a high-quality result for ROA, however, the variable isn't widespread. The have a look at of Husni Ali and Noor Mousa (2011) evaluates the performance of Jordanian homebanks through adopting e-banking offerings. The study became primarily based on three sorts of banks: non-netservices, latest adopters



of the e-banking services and early adopters of those offerings. Theratios used in the examine protected Return on Assets, Return on Equity and Margin of Interest asprofitability ratio. The take a look at included a time frame from the yr 2000 to 2009.On the premise ofempirical analysis, all the financial institution forms of the examine, which differed in e-banking adoption had beencompared to the idea of the performance as a degree. Results for the non-internet offerings hadno huge impact on ROE, but they had been big in terms of ROA. For the second one kind thecurrent adopters of the offerings for a duration much less than 2 years, the significance changed into best onMargin. The final sort of the financial institution that implemented electronic banking services it did not have anyimportance on banks profitability for the entire time period. In this situation, it's miles simply visible thatit takes time to be adapted to the e-banking offerings, as for each new product usually, it takes two or 3 years to see the nice result.

There is any other comparable empirical analysis in India by means of Pooja and Balwinder (2009). Authorsselect eighty-five business banks, some public and personal ones for a period of time from 1998 to theyr 2006. The study is divided into the univariate and multivariate analysis, using 10 economicperformances. The authors desired to prove the overall performance and threat in relation to onlinebanking. In the univariate evaluation, the hypothesis is constructed on how the web and non-online.

Josiah and Nancy (2012) in their study intend to confirm if there is a relationship between e-banking and performance by using Pearson Product- Moment Correlation Coefficient test. Theyfocused on a regression with ROA as the dependent variable, EB (investment in electronic banking measured in Kshs) as independent variable, CDS (number of debit/cards issued by banks) andATMS (number of systems installed by banks). The purpose was analyzing the impact of ebanking, on bank performance. Usually, other studies involved research on the relation of the loan, deposit, and other variables, but Josiah and Nancy (2012) used different variables. They started with 43 commercial banks, from which only 27 banks answered positively to the data sent to themanagers. Basically, the study was based on these 27 commercial banks for a period of timefrom 2006 to the 2007 year. Conclusion resulted that E-banking has strong significance on ROA in the banking industry of Kenya. The relationship between e-banking and performance of bankswas

positive. Overall the whole study concluded that the adoption has made good points, especially the use of debit cards and ATM made the customer access to the money for 24/7.

The comparative analysis by Francesca and Peter (2008) represent a good study because its evaluation is done in four different European countries like Spain, UK, Finland, and Italy. TheNauthors aim to embrace not only if there is a performance and internet banking service relation, but also checking if there were differences or similarities in mixed banks that use online banking, and pure online banking ones. Fuzzy cluster analysis was used to show the difference into thebank group in performance and other characteristic divide them into groups, as a mixed bank ofinternet banking and they found out it is more trivial. The Panel data used was from 1995-2004a year with 46 banks. Fixed effect panel estimation as a reason for heterogeneity unobserved acrossbanks with different states and dependent variable ROA and ROE. The authors found out that generally there is no such difference in pure online banking and mixed internet banking. From the loan perspective, pure online banking is not so keen on offering loans, whereas a mixedbank is more into that. The findings included that internet banks performed well in term of ROA,ROE. As mentioned above, it is difficult to distinguish between pure and mixed internet banking. From the performance aspect, it could be specified by using some explanation of differences betweensome banks, and also adding the macroeconomic indicator and technology related to the ratios. Itwas observed an increase in the IT departments costs and personnel and the management of thebanks were more oriented towards the online banking offering.

III. MAIN THEME

The main objective of the study is to examine relationship between e-banking activities (proxied by valueof POS transactions) and the performance of commercial banks in India (proxied by customers' deposit).

Specifically, the study strives to achieve the following objectives:

1) To determine the relationship between POS transactions and customers' savings deposits incommercial banks in India.

2) To examine the relationship between POS transactions and customers' time deposits in commercialbanks in India.



3) To analyse the relationship between POS transactions and customers' demand deposits in commercial banks in Indiaon.

Experts have pointed out specific areas in which the ebanking will enhance the quality of life. These include: 1) Faster transactions – reducing queues at points of sales

2) Improving hygiene on site – eliminating the bacterial spread through handling notes and coins.

3) Increased sales

4) Cash collection made simple – time spent on collecting, counting and sorting cash eliminated
5) Managing staff entitlements

It is also noted that:It reduces transfer/processing fees, increases processing transaction time, offers multiple paymentoptions and gives immediate notification on all transactions on customers' account.It is also beneficial to the banks and merchants; (there) are large customer coverage, internationalproducts and services, promotion and branding, increase in customer satisfaction and personalized relationship with customers, and easier documentation and transaction tracking [11]

As a policy instrument, CBN has heaped a lot of praises the cashless system. CBN on has hinged economicdevelopment on the cashless system; it sees it as a tool for tackling corruption and money laundering. It hasbeen pointed out that: "Among the reasons glibly advanced by the CBN for this policy include reducing thecost of cash management, making the Indian economy cashless, checking money laundering and theinsecurity of cash in transit. Statistics show that cash management in 2009 cost N114.5 billion and this isprojected to stand at N200 billion in 2020. In the same vein, the cashless system provides the opportunityof being able to "follow the money" and thus check money laundering across boarders. Added to this is theperceived impact on the Naira. The system will reduce the pressure on the Naira. This can only happen ifthere is effective and standard cross-boarder electronic transmittal's reporting system. Following from theabove therefore, it is anticipated that the cashless system will bring with it transparency in businesstransactions [12]. In the same token, the cashless economy will bring with it a leaning towards bankingculture. It is seen that the effort is directed at " ensuring 'cashless economy' and nurturing the culture ofsaving in the unbanked majority in the country" [13]. Most of Indians are still unbanked, and so we havelarge proportion of the citizenry not subject to such monetary

policy instruments as are used in the bankingsystem. This development will make CBN's policy tools more effective for achieving economic developmentand stability goals.

It appears that the most serious appeal of the cashless system comes from the high cost of cashmanagement in India [14]. Other identified reasons for the cashless economy policy are robbering, revenue leakages and inefficient treasury. The system will present some costs to the banking public, therewill be some costs to be borne by government and there will be costs for the operators of the system.

Model Specification

To investigate the relationship between e-banking and commercial bank performance in India, we employ the following mode

BD = f(POSt)(1)

 $BDt = \beta 0 + \beta 1POSt + \mu t (2)$

The a priori expectation of the slope coefficient is: POS > 0.

where BDt is the dependent variable and is the observations of monthly commercial bank deposits,

POStdenotes the monthly observations of the value of POS transactions, $\beta 1$ is the coefficient and its effect onreal bank deposit and μt is the stochastic error term at time t.

The data for this study are monthly series of savings deposit, time deposits, demand deposit, and monthlyvalue of POS transactions in India. The series were obtained from Central Bank of India (CBN)statistical bulletin for various years. The sample period under consideration for the variables ranges fromJanuary 2009 to December 2013.

IV. DISCUSSIONS

Descriptive Statistics: Table 1 shows descriptive statistics of the growth series of savings deposits, time deposits, demanddeposits, and monthly value of POS transactions in India for the sample period. Notice that value of POStransactions has the highest average growth rate but time deposit has the least growth rate. Also the valueof POS transactions has the highest standard deviation but savings deposit has the least. The value of POStransactions is negatively skewed with fattails but the commercial bank deposits are normally distributed.

Table 1. Descriptive Statistics



GVPOS	0.0482	0.6959	-4.2541 (0.000)	33.2943 (0.000)	2903.05 (0.000)
GSD	0.0133	0.0238	0.0508 (0.876)	0.1559 (0.817)	0.0852 (0.958)
GTD	0.0036	0.1287	-0.4753 (0.146)	19.7428 (0.000)	960.42 (0.000)
GDD	0.0041	0.0458	0.1324 (0.685)	0.3980 (0.556)	0.5620 (0.755)

Table 2 presents the results of unit root tests performed on levels and growth series of savings deposits,time deposits, demand deposits, and monthly value of POS transactions in India for the sample period.Notice from Table 2 that log of POS does not contain unit root but log of bank deposits all have unit root.Note however that the growth series of all the variables do not contain unit roots.

Table 2. Unit Root Test Result

	Log-leve		Growth Series		
LVPOS	-3.4848	-4.1034**	DVPOS	-2.9117	-7.2801***
LSD	-3.4848	-1.5930	DSD	-2.9127	-3.6917***
LTD	-3.4875	-2.3956	DTD	-2.9117	-7.5098***
LDD	-3.4848	-3.1823*	DDD	-2.9109	-8.2960***

V. CONCLUSION

The major impartial of this paper is to analyse the association between the e-banking (proxied by valueof Point-of-Sale Terminal transactions) and commercial bank performance (proxied by savings, time, anddemand deposits) in India using the Engle-Granger two steps cointegration method. The ADF unit roottest shows that the e-banking is integrated of order zero (I(0)) whereas commercial bank performance are are of order one (I(1)). The estimates of the Engle-Grangercointegration tests demonstration that POS is notcointegrated with both the savings and time deposits but are cointegrated with demand deposits.

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