A Study on Post Hoc Analysis on Education Level in Mobile Banking

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Abstract

The present study is laid out to know the impact of independent variable education on the dependent variables of customer satisfaction in mobile banking and factors responsible for such risks in the selected banks and to suggest measures for improving risk solutions. ANOVA are used to test the hypotheses and validate the results. The analysis is in conformity with the objectives of the study and the hypotheses formulated. The collected data are analyzed through SPSS 22 version. Findings include there is a significant difference in average agreement on customer satisfaction in mobile banking among the different edification. It is also observed that graduate respondents have greater agreement on infrastructure risk than post graduate. Graduates can be used to teach mobile banking to the society. Further mobile banking is suggested to be a part of graduate level course curriculum.

Key words: Mobile, banking, education, level, risk

INTRODUCTION

Mobile commerce technology is advancing as far as security issue is growing. With no security in doing mobile transactions, the financial world could be in a huge chaos. Thieves would have easy access to our personal information or our banking account information. Business transactions and banks will not be secure anymore; even national security could be in jeopardy. There is a significant relationship between “perceived ease of use and perceived usefulness”, and “perceived ease of use and perceived credibility” (Hanudin, et al. 2008). People who do not have mobiles and most of the aged people find mobile banking more complex than traditional banking. Knowledge of its operation is required, but there are people who feel very difficult to type a message and it is of no use for them. If others come to know the password, it could not be trustworthy, as actual signatures like in traditional banking are not required. Mobile Pin (M pin) is required to change after every transaction to make it trustworthy. This is a big problem as all the transactions are baseless if there is no network or slow network. If message is not delivered on time to the provided number, transaction will not be successful. If mobile is not working due to low battery, improper balance or network problem, then scope of mobile banking is very limited. People who are not acquainted with mobile banking they require a lot of mental effort to understand preferred language, date, time format, amount format, default transactions, standard beneficiary. On the other hand, people who are of posh nature can manage their funds, as it becomes an easy way to do shop their hearts out, invest generously or buy other luxury items. When it starts, some updates are required and some applications are needed to be downloaded. It delays the transactions, which are required immediately. In many banks, there are limited language options but still English remains the common language in all mobile banking services. Normally, Hindi language option is not available. It creates problem for the customers. If account is not password protected, then it may be visible to others using one’s mobile. A track on privacy may be due to users’ carelessness or leakage of information. If messages are not deleted, these are automatically saved in inbox. It is also perceived that mobile banking is costlier than conventional banking. (Lapavitsas and Santos, 2008) originated the fact that impact of technological innovation is
contradictory as money dealing transactions became cheaper but investment cost increased.

**LITERATURE REVIEW**

Ghezzi, Renga, Balocco and Pescetto (2010) conducted a study on the Italian mobile payment services market, and to identify and assess the main diffusion drivers of mobile payment applications. The research design integrates an exhaustive census of all Italian mPayment applications and an in-depth analysis of the most significant cases performed through the case studies methodology: ten user companies or "merchants" and six service providers were analyzed through semi-structured interviews given to top managers. Through the census, 21 M-Payment applications and related services were identified. In addition to this, the case studies brought greater understanding of the key diffusion drivers: strong inhibitory factors and adoption barriers are still restricting user adoption despite the many benefits related to these services.

Ajibola (2010) analyzed the banks of South Africa to attract and retain the customers and found that the customers were generally satisfied to some extent with their banks with regard to services, products and banking relationship. It was suggested that the banks needed to do research on why customer satisfaction was low.

Bhat and Khan (2013) detected that there was significant variation between private sector banks (JKB and HDFC bank) and public sector banks (PNB and SBI) regarding each of the overall perceived and expected. It was also observed that their respective customers provided significant score and hence accepting the research hypothesis. They suggested that the banks should develop more proactive market strategies to reach and retain customers. The management must adapt customers’ orientation programmes and reinforce their relationship with them.

Kumar, Banga and Sharma (2014) found that nationalized banks were concentrating more on increasing their credit risk and capital requirements as compared to the private and foreign banks as their increase was more of the other two categories of banks. The private banks were concentrating on their Tier-1 capital requirement as compared to other two categories of private and foreign banks taking care of the internal procedures of banks and by creating more awareness about supervising review. It was suggested that proper action should be taken to make the compliance more transparent and effective.

The above review of literature shows that no concerted efforts have been made to study the relationship of education variables with the use of mobile banking among customers in the selected banks, to know about customer satisfaction by analyzing the problems faced by the customers, to examine the risks to the customers due to mobile banking and factors responsible for these risks in Indian context. Therefore, the present study is an attempt to fill these gaps.

**RESEARCH METHODOLOGY**

The present study is put out to know the Impact of Education on the Instinct in Mobile Banking and factors responsible for such risks in the selected banks and to suggest measures for improving risk solutions. In this broader framework, the following are the specific objectives of the study:

(i) To understand the problems to the customers due using of mobile banking at different education levels

(ii) To know impact of customer satisfaction in mobile banking at different education levels.

(iii) To analyze infrastructure risk in mobile banking at different education level.

(iv) To do post hoc analysis in case there is significant difference of Edification on the Instinct in Mobile Banking

**Research Hypotheses**

To validate the results of the study, the following hypotheses have been formulated:

H₀₁: There is no significant difference of in problems in mobile banking, customer satisfaction and infrastructure risk at different education level

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**DATA COLLECTION**

The present study is based on both primary and secondary data. Primary data have been collected from the customers selected by judgment sampling with the help of pre-structured questionnaire on five point Likert scale i.e. Strongly Disagree (SD), Disagree (D), Indifferent (I), Agree (A) and Strongly Agree (SA). After examination, 114 questionnaires from public sector banks, 57 from private sector banks and 33 from foreign banks were found complete and used for further analysis. Secondary data have been extracted from annual reports of
selected banks, national and international agencies, various RBI Publications (RBI Bulletin and RBI Annual Reports), and IBA Publications, etc. The other sources include the research studies and articles published in various journals, magazines, newspapers and websites. The study period is 2015-16.

DATA ANALYSIS

The collected data were analyzed through descriptive statistical techniques like frequency distribution, percentage, mean, mode, standard deviation, regression analysis, etc. For coding and analyzing the data, weights were assigned in order of importance i.e. 1 to Strongly Disagree (SD), 2 to Disagree (A), 3 to Neutral, 4 to Agree (A), and 5 to Strongly Agree (SA). ANOVA, test, Chi-square test and Z-test were used to test the hypotheses and validate the results. The analysis is in conformity with the objectives of the study and the hypotheses formulated. The collected data were analyzed through PASW 22.0 version.

IMPLICATIONS

The present study would be beneficial to the policy makers, bankers, customers and researchers to know designing suitable strategies for overcoming mobile banking risks.

MAJOR RESULTS AND DISCUSSIONS

An attempt made to analyze the relationship between edification and instinct of the customers about mobile banking. As there are more than two independent descriptive of people with different edification, on which we are comparing the average level of agreement on various issues so apply Under Graduate N=80 having highest problems in mobile banking mean = 2.86, Standard deviation = 0.68 than Graduate mean =N=55, Mean=2.74 , Standard deviation = 0.77, Post Graduate N=36 mean =2.81 Standard deviation =0.76 and PhD N=33, mean =2.82 Standard deviation =0.83 One-Way ANOVA. As sample size is large enough so normality and homogeneity of variables assumptions is not a serious violation here. It is clear from table 1 and 2 that at 10% level of significance there is not a significant difference in the average agreement on problems in mobile banking amongst the different edifications, f (3, 200)=0.27, p=0.85.

### Table 1: Descriptive statistics for problems in mobile banking at different edifications

| Education level      | N   | Mean | S.D. | Std. Error | Lower Bound | Upper Bound | Minimum | Maximum |
|----------------------|-----|------|------|------------|-------------|------------|---------|---------|
| Under Graduate       | 80  | 2.86 | 0.68 | 0.08       | 2.73        | 2.98       | 1.18    | 4.32    |
| Graduate             | 55  | 2.74 | 0.77 | 0.10       | 2.56        | 2.91       | 1.14    | 4.09    |
| Post Graduate        | 36  | 2.81 | 0.76 | 0.13       | 2.60        | 3.03       | 1.68    | 4.32    |
| PhD                  | 33  | 2.82 | 0.83 | 0.14       | 2.58        | 3.07       | 1.18    | 5.00    |

Source: Survey

### Table 2: ANOVA for problems in mobile banking at different edifications

| Nominal               | Sum of Squares | d.f. | Mean Square | f  | p-value |
|-----------------------|----------------|------|-------------|----|---------|
| Between Groups        | 0.45           | 3    | 0.15        | 0.27| 0.85    |
| Within Groups         | 111.52         | 200  | 0.56        |    |         |
| Total                 | 111.97         | 203  |             |    |         |

Source: Survey
As there are more than two independent descriptive of people with different edification, on which we are comparing the average level of agreement on various issues so apply Graduate N=55 having highest customer satisfaction in mobile banking mean = 3.50, Standard deviation = 0.78 than under Graduate mean =N=80, mean= 3.43, Standard deviation = 0.93, Post Graduate N=36 , mean =3.49 Standard deviation =0.91, and PhD N=33 mean =3.03 Standard deviation =1.11. As sample size is large enough so normality and homogeneity of variables assumptions is not a serious violation here. It is clear from table 3 and 4 that at 10% level of significance there is a significant difference in average agreement on customer satisfaction in mobile banking amongst the different edifications, F(3, 200)= 2.11, p=0.10.

**Table 3: Descriptive statistics for customer satisfaction in mobile banking at different edifications.**

| Education level   | N  | Mean | S.D. | Std. Error | Lower Bound | Upper Bound | Minimum | Maximum |
|-------------------|----|------|------|------------|-------------|-------------|---------|---------|
| Under Graduate    | 80 | 3.43 | 0.93 | 0.10       | 3.26        | 3.61        | 1.30    | 5.00    |
| Graduate          | 55 | 3.50 | 0.78 | 0.11       | 3.23        | 3.68        | 1.00    | 4.60    |
| Post Graduate     | 36 | 3.49 | 0.91 | 0.15       | 3.23        | 3.74        | 1.50    | 5.00    |
| PhD               | 33 | 3.03 | 1.11 | 0.19       | 2.71        | 3.36        | 1.00    | 4.90    |

**Source:** Survey

**Table 4: ANOVA for customer satisfaction in mobile banking at different edifications**

| Nominal          | Sum of Squares | df | Mean Square | f      | p     |
|------------------|----------------|----|-------------|--------|-------|
| Between Groups   | 5.38           | 3  | 1.80        | 2.11   | 0.10  |
| Within Groups    | 170.54         | 200| 0.85        |        |       |
| Total            | 175.92         | 203|             |        |       |

**Source:** Survey

From the post-hoc tests, It is clear from table 5 that undergraduates has greater agreement on customer satisfaction the PhD respondents, p=0.04, graduate respondents has greater agreement on customer satisfaction the PhD respondents, p=0.02, post-graduate respondents has greater agreement on customer satisfaction the PhD respondents, p=0.04.

**Table 5: Multiple comparison on average agreement on customer Satisfaction in mobile banking at different edifications**

| (I) Education | (J) Education | Mean Difference (I-J) | Std. Error | p-value | 90% Confidence Interval | Lower Bound | Upper Bound |
|---------------|---------------|-----------------------|------------|---------|-------------------------|-------------|-------------|
| Under Graduate| Graduate      | -0.07                 | 0.16       | 0.67    | -0.34                   | 0.20        |             |
|                | Post Graduate | -0.05                 | 0.19       | 0.78    | -0.36                   | 0.25        |             |
|                | PhD           | .40*                  | 0.19       | 0.04    | 0.08                    | 0.72        |             |
| Graduate       | Under Graduate| 0.07                  | 0.16       | 0.67    | -0.20                   | 0.34        |             |
|                | Post Graduate | 0.02                  | 0.20       | 0.93    | -0.31                   | 0.34        |             |
|                | PhD           | .47*                  | 0.20       | 0.02    | 0.13                    | 0.81        |             |
| Post Graduate  | Under Graduate| 0.05                  | 0.19       | 0.78    | -0.25                   | 0.36        |             |
|                | Graduate      | -0.02                 | 0.20       | 0.93    | -0.34                   | 0.31        |             |
|                | PhD           | .45*                  | 0.22       | 0.04    | 0.09                    | 0.82        |             |
It is clear from table 6 and 7 that there is a significant difference in the average infrastructure risk in mobile banking amongst the different edifications, $F(3, 200)= 2.18$, $p=0.09$.

**Table 6: Descriptive statistics on average infrastructure risk in mobile banking at different edifications.**

| Education level | N  | Mean | Std. Deviation | Std. Error | 90% Confidence Interval for Mean | Minimum | Maximum |
|-----------------|----|------|----------------|------------|---------------------------------|---------|---------|
| Under Graduate  | 80 | 3.02 | 0.92           | 0.10       | 2.85-3.12                       | 1.00    | 4.57    |
| Graduate        | 55 | 3.26 | 0.79           | 0.11       | 3.09-3.44                       | 1.14    | 4.57    |
| Post Graduate   | 36 | 3.13 | 0.92           | 0.15       | 2.88-3.49                       | 1.00    | 5.00    |
| PhD             | 33 | 2.77 | 1.09           | 0.19       | 2.77-3.09                       | 1.00    | 4.86    |

**Source:** Survey

From the post-hoc tests, it is clear from table 8 that graduates has greater agreement on infrastructure risk than Ph.D. respondents, $p=0.01$, post-graduates has greater agreement on infrastructure risk than Ph.D. respondents, $p=0.10$.

**Table 8: Multiple comparison on average agreement on infrastructure risk in mobile banking at different edifications.**

| (I) Education | (J) Education | Mean Difference (I-J) | Std. Error | pvalue | 90% Confidence Interval |
|---------------|---------------|-----------------------|------------|--------|-------------------------|
| Under Graduate | Graduate      | -0.25                 | 0.16       | 0.13   | -0.51 - 0.02            |
|                | Post Graduate | -0.12                 | 0.18       | 0.53   | -0.42 - 0.19            |
|                | PhD           | 0.25                  | 0.19       | 0.19   | -0.06 - 0.57            |
| Graduate       | Under Graduate| 0.25                  | 0.16       | 0.13   | -0.02 - 0.51            |
|                | Post Graduate | 0.13                  | 0.20       | 0.51   | -0.19 - 0.45            |
|                | PhD           | .50*                  | 0.20       | 0.01   | 0.17 - 0.83             |
| Post Graduate  | Under Graduate| 0.12                  | 0.18       | 0.53   | -0.19 - 0.42            |
|                | Graduate      | -0.13                 | 0.20       | 0.51   | -0.45 - 0.19            |
|                | PhD           | .37*                  | 0.22       | 0.10   | 0.00 - 0.73             |
| PhD            | Under Graduate| -0.25                 | 0.19       | 0.19   | -0.57 - 0.06            |
|                | Graduate      | -0.37*                | 0.22       | 0.10   | -0.73 - 0.00            |

*. The mean difference is significant at the 0.10 level.
FINDINGS

From the post-hoc tests, it is found that graduates have greater agreement on infrastructure risk than Ph.D. respondents, post-graduates have greater agreement on infrastructure risk than Ph.D. respondents. It is also observed that at 10% level of significance there is a significant difference in the average infrastructure risk in mobile banking in mobile banking amongst the different edifications. Also the post-hoc test suggests that undergraduates has greater agreement on customer satisfaction the PhD respondents, graduate respondents has greater agreement on customer satisfaction the PhD respondents, post-graduate respondents has greater agreement on customer satisfaction the PhD respondents. As there are more than two independent descriptive of people with different edification, on which we are comparing the average level of agreement on various issues so apply Graduate having highest customer satisfaction in mobile banking than under Graduate, Post Graduate and PhD. There is a significant difference in average agreement on customer satisfaction in mobile banking amongst the different edifications. An attempt made to analyze the relationship between edification and instinct of the customers about mobile banking. As there are more than two independent descriptive of people with different edification, on which we are comparing the average level of agreement on various issues so apply under graduate having highest problems in mobile banking than Graduates, Post Graduate and PhD. It is also observed that there is not a significant difference in the average agreement on problems in mobile banking in mobile banking amongst the different edifications.

SUGGESTIONS

Bank should get feedback from customers at regular intervals to provide satisfaction to them in mobile banking. Banks should encourage the customers to adapt latest changes in technology for use of mobile banking. Banks should scrutinize the factors regularly to handle the problems of customers in mobile banking. Banks should make efforts to minimize operational/technological risk by using latest software to provide error free mobile banking. Customer awareness campaign should be organized by the banks to provide practical knowledge of mobile banking to them. Graduates can be used to teach mobile banking to the society. Further mobile banking is suggested to be a part of graduate level course curriculum.

CONCLUSION

Mobile which was only a pump and show instrument a decade before and now has become a need. It has become an indispensable need like Food, Cloth and Shelter. These days Banking is also need of the day. Banking through mobile is now needed of the hour. So mobile is not only used for talking, texting, sharing audios, video images but also has become a source of information. It will not wrong to say bank at your mobile. Every bank is proving this facility and more or less people users are increasing day by day. Education affects or not with the use of mobile banking is the crux of the issue. It is very easy to use but do education levels have effect on the satisfaction. What the educated person has perception about using mobile banking what are the problems faced by mobile user in banking, what are the different perceptions about risk and what is opinion about covering these risks. Also is there any significant difference regarding using mobile banking at different level and if yes can post hoc analysis will show any significant result. Present study is an attempt to know the significant difference at edification in mobile banking. It is found that graduates have greater agreement on infrastructure risk than Ph.D. respondents, post-graduates has greater agreement on infrastructure risk than Ph.D. respondents.

REFERENCES:

1. Vaidya, Shripad Ramakant (2011). Emerging Trends on Functional Utilization of Mobile Banking in Developed Markets in Next 3-4 Years, International Review of Business Research Papers, 7 (1), 301-312.
2. Vaidya, Shripad Ramakant (2011). Emerging Trends on Functional Utilization of Mobile Banking in Developed Markets in Next 3-4 Years, International Review of Business Research Papers, 7 (1), 301-312.
3. Uppal, R. K. and Juneja, Amit (2013). Banking Sector Productivity and Growth of Indian Financial System in E-banking Period, Asian Journal of Research in Social Science & Humanities, 3 (5), 13-19.
4. Tommi, Laukkanen (2007). Internet vs. Mobile Banking: Comparing Customer
Value Perceptions, Business Process Management Journal, 13 (6), 788-797

5) Tiwari, Rajnish and Buse, Stephan (2007). The Mobile Commerce Prospects: A Strategic Analysis of Opportunities in the Banking Sector, Hamburg University Press (E-Book as PDF), p.n.d.

6) Sylvie, Laforet and Xiaoyan, Li (2005). Consumers' Attitudes towards Online and Mobile Banking in China, International Journal of Bank Marketing, 23 (5), 5-11

7) Supathanish, Termsnguanwong (2010). Customers' Discernment of Mobile Banking Business: Northern Region of Thailand, International Trade and Academic Research Conference (ITAR'C), DBA, Thailand: Marketing Program, Payap University p.n.d.

8) Singh, S. (2014). Management of E-Banking Risks in India. New Delhi: DBH Publishers and Distributors (1st ed.), pp. 1-10.

9) Shi Yu (2009), Factors Influencing the Use of Mobile Banking: The Case of SM S-based Mobile Banking, A Thesis submitted to Auckland University of Technology in partial fulfillment of the requirements for the Degree of Master of Computer and Information Sciences (MCIS), p.n.d.

10) Sharma, Lokesh, Agarwal, Parul D. and Kapoor, Bhawana (2010), E-Banking, A Windfall of Electronic Era: Avenues and Issues, CPJ Global Review - AN International Journal of Rishi Aurobindo Educational Society, 2 (1), pp. 41-47.

11) Shah, Kamini, Bhatt, Sandip and Jain, Nirmal (2011). AWARENESS AND PERCEPTION OF CUSTOMERS ABOUT MOBILE BANKING: THE INDIAN JOURNAL OF COMMERCE, Volume 64 (1), 13-26.

12) Pal, Rekha and Rai, Anand (2012). Islamic Banking as a Medium of Inclusive Growth in India: Issues and opportunities, AIMT Journal of Management, 1 (2), July-December, pp. 52-55.

13) Margaret Crabbage, Craig Standing, Susan Standing, Heikki Karjulotto (2009). An Adoption Model for Mobile Banking in Ghana, International Journal of Mobile Communications, 7 (5), 515-543.

14) Malviya S. (2016) "Mobile banking current status in India", International Journal of Commerce and Management Research, Volume 2; Issue 5; May 2016; Page No. 63-66 accessed on dated 28-12-2016 Nayak Nitin, Nath Vikas & Goel Nancy (2014), International Journal of Research in Engineering & Technology (IMPACT: IJRET), Vol. 2, Issue 3, Mar 2014, 209-222

15) Malavizhi and Rajeswari, (2012). User’s Criteria for selecting Mobile Banking Services in Coimbatore: Empirical Evidence, Asian Journal of Research in Marketing, 1(1), 1-18.

16) Luo, Xin (2007), An Empirical Investigation of Trying and Trust Toward Mobile Banking Adoption: A Cross Cultural Analysis of Chinese and United States Users, A thesis submitted to Mississippi State University for the Degree of Doctor of Philosophy, Department of Management & Information System, p.n.d.

17) Lou Yingchun (2008). A Study of Commercial Banking Performance: What Can We Learn from 4P Marketing Variables? Studies of International Financehttp://www.bizresearchpapers.com/22.%20Shripad-FINAL.pdf, p.n.d.

18) Khan Harun R, (2012). Customizing Mobile Banking in India: Issues and Challenges. Address delivered at the FiCICI-IBA (FiBAC) 2012 Conference on “Sustainable Excellence through Customer Engagement, Employee Engagement and Right Use of Technology”, p.n.d.

19) Jha, S. M. (2011). Bank Marketing, Himalaya Publishing House, Second Revised Edition, pp. 1-11.

20) Ipatry, G, Pickens, M. (2006). Mobile Phone Banking and Low Income Customers: Evidence from South Africa, Consultative Group to Assist the Poor (CGAP) and the United Nations Foundation, Washington, p.n.d.

21) Hanudin Amina, Mohd Rizal Abdul Hamida, Suddin Lada and Zuraidah Ainsba (2008). The Adoption of Mobile Banking in Malaysia: The Case of Bank Islam Malaysia Berhad (BIMB), Malaysia International Journal of Business and Society, 9 (2), 69-86.

22) Gupta Ashish, Sharma Anand (2012). Mobile Banking: A Tool of Financial Inclusion, Educator - The FIMT Journal, 2 (1), 21-30.

23) Dhingra, Sanjay (2012). Technologies for Banking transformation, in National conference on Innovative Strategies for Transforming Organizations, Allied Publishers Pvt. Ltd., pp. 48-56.
24) Costas Lapavitsas and Paulo L Dos Santos (2008). Globalization and Contemporary Banking: On the Impact of New Technology, Published by Oxford University Press on behalf of the Cambridge Political Economy Society, Vol. 27, pp. 31-56.

25) Chowdhury, M.J.H., Alam, F.I. (2012). A Multilayer Network Supporting Universal Electronic Cash Transaction Framework, Computer and Information Technology (ICCIT), 15th International Conference, pp. 362-368.

26) Ching, Yi Lin. (2014) Service Quality of Mobile Banking System, retrieved from http://www.toknowpress.net/ISBN/978-961-6914-02-4/papers/M.L13-286.pdf accessed on 28-08-2014, p.n.d.

27) Chang-Lung Tsai, Chun-Jung Chen, Deng-Jie Zhuang (2012). Secure OTP and Biometric Verification Scheme for Mobile Banking, Mobile, Ubiquitous, and Intelligent Computing (MUSIC), Third FTRA International Conference, 138-141.

28) Chandok Sunil (2013). The Role of Training and Development- A Study on Private Banks, Educator, FIMT Journal, 1(3), 42-47.

29) Chakrabarty K. C. (2012). International Banking Summit on Regulation of Cross-Border Mobile Payments and Regional Financial Integration at Mumbai on March 29., p.n.d.

30) Bharti M (2016), Impact of Dimensions of Mobile Banking on User Satisfaction, Journal of Internet Banking and Commerce An open access Internet journal (http://www.icommercecentral.com) Journal of Internet Banking and Commerce, April 2016, vol. 21, no. 1

31) Arora M, ed (2016), New Insight to Management, Lambert Academic Publishing, pp. 1-60

32) Albert Phung (2014). What is Political Risk and What can a Multinational Company do to Minimize Exposure, retrieved from http://www.investopedia.com, accessed on 28 August, 2014, p.n.d.

33) Ajibola, Olakunle A (2010). Attracting and Retaining Customers in South Africa’s Banking Sector, submitted in partial fulfillment of the requirements for the degree Master in Business Administration at the Business School, Faculty of Business and Economic Sciences of the Nelson Mandela Metropolitan University, Supervisor: Professor Madele Tait, p.n.d.

34) https://www.sbi.co.in/user.htm?action=viewsection&lang=0&id=0,1,21,691 accessed on 24-10-2012

35) https://www.online.citibank.co.in/product-services/online-services/imps.htm accessed on 06-06-2015

36) https://www.federalreserve.gov/econresdata/consumers-and-mobile-financial-services-report-201503.pdf

37) http://www.sans.org/reading-room/whitepapers/eCommerce/security-mobile-banking-payments-34062 accessed on 28-08-2014

38) http://www.rbi.org.in/Scripts/bs_viewcontent.asp?id=1660 accessed on 05-01-2012

39) http://www.federalreserve.gov/econresdata/consumers-and-mobile-financial-services-report-201603.pdf

40) http://www.bjpstandard.com/article/economy-policy/demontisation-effect-scarcity-of-essential-commodities-feared-in-odisha-116112800362_1.html accessed on dated 03-12-2016

41) http://www.bizresearchpapers.com/22.%20risp.pdf accessed on 09-02-2013

42) http://www.bankingtech.com/169042/operational-risk-hell-is-other-people, accessed on 28-08-2014

43) http://www.articlesbase.com/banking-articles/mobile-banking-definition-and-advantages-1163722.html, accessed on 06-01-2012

44) http://www.npci.org.in, accessed on 03-05-2013

45) http://thefinancialbrand.com/37391/bank-personalisation-product-development/ accessed on 28-08-2014

46) http://sun.library.msstate.edu/ETD-db/theses/available/etd-04092007-123056, accessed on 06-03-2013

47) http://pmjandhanyojana.co.in, accessed on 25-05-2015

48) http://en.wikibooks.org accessed on 06-01-2012

49) http://en.wikipedia.org/wiki/Mobile_banking, accessed on 06-03-2013

50) Consumers and Mobile Financial Services 2015 March 2015,