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STUDY ON IMPACT OF COVID – 19 ON ACCEPTANCE OF DIGITAL PAYMENTS Dr. Vand

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ABSTRACT

Digital Banking provides one step solution for all the banking needs like cash dep six wit drawals, fund transfer etc. In the cashless economy, all transactions are digitally recorded. Digitalization of ransactions has made the process more transparent and accountable. The types of digital payments includes a obile wallets, plastic money like debit and credit cards, net banking. Mobile wallets are virtual wallets on more phone. The money is transferred in these wallets using debit/credit cards or Net banking. Digital banking can be use to pay bills and make online purchases. Plastic money can be used for withdrawing cash from ATM making online payments and swiping for purchases. NET banking involves transfer of funds from one bank account to nother using electronic funds transfer (NEFT), real time gross settlement (RTGS) at a nominal transaction cost. The advent of demonetization in November -2017 has led to increase in digital transactions. That time there was figuidity crunch and people were using more of the alternative methods such as net banking, e wallets, debit and credit cards. The cashless transactions means there is absence of cash in the market and transactions are done using credit/debit cards, electronic fund transfer like RTGS (Real Time Gross Settlement) and NEFT (National Electronics Functional for ansfer). In 2020, Corona virus epidemic originated in China and from there it traveled to all the che, parts of the world. The first case of Corona was reported in India on 30th Jan, 2020. On 22nd March 1 vitee 1 hours voluntary curfew was imposed on appeal by Prime Minister Modi in 75 districts which years co on amfected and all the major cities. On 24th March, he announced nationwide lockdown for 21 days. Further this lockdown was increased till 31st May. Due to risk of transmission of corona virus through physical currence people once again moved to digital transactions.

Keywords: Cashless trans ctions, Demonetizator, Digitalization, Covid -19, Pandemic

Introduction

This study rended to the end in Digital Banking is based on implicit of these two major factors as Demonetization, and another is a Pandemic – Covid 19.

Demonetization in 2017 forced people in ambit of Digital transactions. Due to unavailability of cash, people were forced to adopt alternative channels of cash transactions like NEFT, RTGS, IMPS, E wallets, Credit cards etc. This was not only convenient but also reduced cash handling costs. It also helps in providing operational efficiency to the banks so banks also focused on diverting customers towards digital channels.

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In 2020, there was a country wide lockdown due to Corona virus attack. Corona virus has brought human suffering as well as economic suffering. Banking services comes under essential services so India's Central Bank took a decision to operate with minimum capacity. They decided to open only one branch every 5 kms. It had to safeguard thousands of employees and at the same time keeps the economy running. All banks in the country were providing at least four services to its customers - cash deposits and withdrawals, cheque

clearances. government transactions, utility payments and remittances. Besides, the government has also reduced charges for digital trade transaction and ATM cash withdrawals to promote digital financial transactions at the time of Covid-19pandemic

According to a report by KPMG India "Incentivizing merchants, retailers and consumers through lower taxation, special incentive schemes to shift to digital payment transactions will be one of the key policy recommendation for the banks." It can be seen that the preference is to move towards digitization. The secondary data of HDFC Bank, which is one of the largest private sector bank in India has been collected. It has been analyzed how demonetization has led to increase in e banking channels of HDFC Bank. Covid -19 again diverted the customers towards Digital Banking. The cashless transaction has reduced the cost for banks. HDFC Bank operates in a highly automated environment in terms of information technology and communication systems. The Bank has the best technology. All the branches have online connectivity

Review of literature

- Pranjali A. Shendge, Bhushan G. Shelar S yilar ja S. Kapase "Impact and Importar of Tashless Transaction in India" International Journal of Current Trends in Engineers ? & Research (2017) The Researc's paper focuses on impact and importance of calless policy in India. Cashless policy will educe cash related corruption and attract nore foreign investors to the country. It is spected that its impact will be felt. modernization of paymentsystem. The payment industry in itself keeps on evolving with the ever changing consumer sentiments and the needs of the businesses. An innovation in this space is thus a continuous process, while the adoption of each of new development takes its own pace to penetrate.
- 2. Pradeep H. Tawade "Future and scope of cashless economy India" International Journal of Advance Research and Innovative Ideas in Education

- (2017) described that 85% of global payments still made using cash. One of the main reasons is that there is nothing to truly compete with the flexibility of notes and coins. The digital era is something to embrace, and new methods of payments will continue to be introduced. But Indians need to recognize the risks and benefits of different payment instruments, the risks associated with electronic payment instruments are far more diverse and severe. Recently buge data of debit card was stolen byhackers
- Arvind Kumar "Demonetication and Cashless 3. Banking Transactions I India" International Journal of Nov Innov tions in Engineering and Technology (201), depicted that Demonetization affects the economy through the liquidity side. Demoretring is progressive shift to a cashless economy with a greater focus on electronic transactions. Rising use of credit/debit cards, net onking and other online payment mechanisms will be another positive effect of demonetization, as these would not only lower transaction costs but many other benefits aswell.

Objectives

To study various e banking services of banks

- To explore various advantages of cashless transactions.
- 3. To examine the impact of demonetization on selected digital banking transactions.
- 4. To identify impact of covid-19 on selected digital banking services

Hypothesis

H₀ There is no significant correlation in between selected digital banking services and demonetization along with covid -19factor.

Ha There is a significant correlation in between selected digital banking services and demonetization along with covid -19 factor.

H₀₁ There is no significant difference in between mean of selected digital banking services on the basis of selected year of study.

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Ha1 There is a significant difference in between mean of selected digital banking services on the basis of selected year ofstudy. **Research Design:** Exploratory

Data Collection: Secondary Data

Sample size: Time series(6years) SamplingTechnique

:

Stratified **Variables :** Dependent Variable - NEFT, RTGS, Mobile Banking Digital banking services Independent Variable - Economic factors as

1. Demonetization and 2. Covid19

Data Description

2016-2017 2017-2018 - Demonetization Impact 2018-

1) Tabular and graphical representation of total no. of branches of HDFC Pank

Number of Branches	Mark Branch s
4014	5000
4520	3000
4715	2000
4787	1000
5103	2014-2015 2015-2016 2016-2017 2017-2018 2018-2019
	4014 4520 4715

2019

Findings

working paper.

2019-2020

Jan 2020 – April 2020 Covid 19 impact

The present study covers the period from April

2014 to March 2020 by collecting secondary data. The

secondary data was collected from published journals,

research papers, RBI website, conference paper and

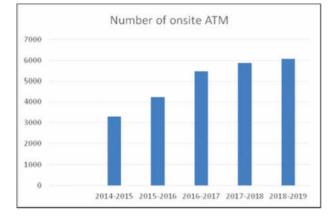
Source: https://rbi.org.in/

Inference : From the above tabular and char it can be number of branches in 2014-15 was 4014 and it increased seen that number of branches increases cary year. The to 5103 in 2018-19.

2) Tabular and grapm all presentation of total number of ATM's installed by HDFC Bank

YEAR	Number of onsite ATM
2014-2015	3,295
2015-2016	4,235
2016-2017	5,471
2017-2018	5,874
2018-2019	6,069

Source: https://rbi.org.in/



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Inference The chart and tabular interpretation shows that from 3295 branches in 2014-15. number of onsite ATMs have doubled to 6069 in 2018-19

Graphical and tabular representation of NEFT - Total Outward Debits of HDFC Bank

	TOTAL OUTWA	ARD DEBITS	
Year	NO. OF	AMOUNT	
	TRANSACTIO	(RS. II	V
	NS	MILLIONS)	
2014-			
2015	110165895	6912446.63	
2015-			
2016	138054151	9128540.7	
2016-			
2017	212972315	15987762.59	
2017-			
2018	287063721	26078555.17	
2018-			
2019	338868194	33195248.5	
2019-		36535602.35	
2020	378895978		

NEFT OUTWARD 4990000000 3500000000 300000000 250000000 200000000 150000000 100000000 50000000 2015-2016 2016-2017 2017-2018 2019-2020 2014-201 2018-2019 ■NEFTOUTWARD ■NEFTOUTWARD

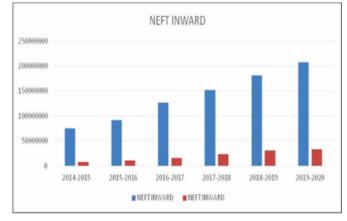
Source: https://rbi.org.in/

Inference: The tabular and graphical representat on shows there is a steep increase in NEFT transactions it year 2015-16 and 2016-17. There is 25% increase in number of transactions in year 2015-16 and 54%

increase in wimber of transactions in year 2016-17 over the year 2015-16. In 2017-18 and 2018- 19 the volume of transactions increased further by 35% and 18%. Maximum transactions were done after the increased by 63% and 27% in 2018-19.

Tabular and Graphical representation of NEFT-Inward Credits in HDFC Bank 4)

	REC. IV.D	INWARD
	CV_DV.2	
YEAR) Y	AMOUNT
	N OF	(RS. IN
	TRANSACTI	MILLIONS)
	ONS	
2014-2015	74757562	8031358.62
2015-2016	91150780	10608269.87
2016-2017	126878012	15119376.09
2017-2018	151596362	23700668.43
2018-2019	180754639	31250723.7
2019-2020	207296877	32907763.3
G 1 //1:		



Source: https://rbi.org.in/

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demonetization was announced by the government. The number of transactions in 2016-17. The percentage

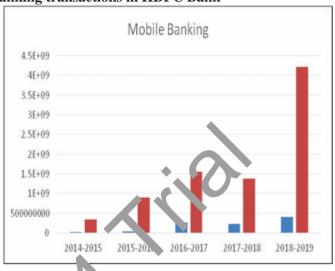
There is increase of 22% transactions in 2015-16 and

5) Graphical and Tabular representation of Mobile Banking transactions in HDFC Bank

YEAR	VOLUME	VALUE (IN 000)
2014 ⁻ 2015	11091012	343869237
2015- 2016	41545406	903384733.3
2016- 2017	259447377	1547847674
2017- 2018	235159796	1380091174
2018- 2019	401730695	4218183911

Source: https://rbi.org.in/

volume has steadily increased after that. The value of since as of 39% in increase in 2017-18 and 2018-19 was NEFT Outward debits increased by 32% and 75% in year 2015-16 and 2016-17 respectively. In 2017-18 Inference: From the tabular and s car'neal representation it is inferred that there is substituted increase in NEFT (inward credits) in last five years. Inference: From the above tab lar an graphical representation it is inferred that banking transactions through mobile increased drawacally in year 2016-17. There was increase it musber of transactions by 275% in 2016-17 over the revious year and there was a drastic



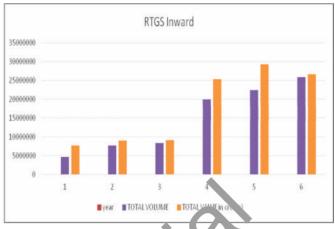
of the oase year. The value of NEFT (inwardcredits) has increased by 32% and 43% in year 2015-16 and 2016-17 respectively.

Value in 2017-18 increased by 57% and 32% in 2018-

increase in volume by 524% for 2017-18. Here the maximum effect of demonetization could be observed fordigital transactions. In 2018-19 again volume increased manifold by 71%. In terms of value also there is a significant increase in amount of transactions done.

6) Tabular and Graphical representation of Total RTGS Inward of HDFC Bank

		1
		TOTAL
	TOTAL	VALUE (In
YEAR	VOLUME	Crores)
	4747516	
2014-		7699386.62
2015		
2015	7757333	9021097.87
2016		
2016-	8400727	9112585.15
2017		
2017-	19888089	25348615.00
2018		
2018-	22456515	29247106.00
2019		
2019-	25790145	26599632.94
2020		

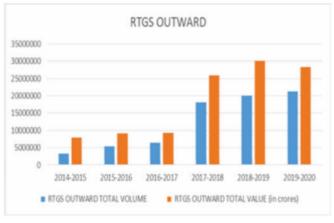


Source: https://rbi.org.in/

Inference: From the above tabular and graphical number of transactions over the previous year. Also there representation it can be inferred that RTGS Inwar i v.a. increase in the value of transactions by 17%. In the transactions has grown in volume and value over any year 2016-17, the growth in number of RTGS Inward years. In the year 2015-16 there was an increase of 63% in transactions is 8%. In 2017-18 it shot to 137% in volume and 178% in value.

7) Tabular and graphical representation of Total NTGS Outward of HDFC Bank

		TOTAL
	TOTAL	VALUE
YEAR	Ve CUM!	(In Crores)
2014-	322173	
		7934782
2015		
2015-	5380964	9190240
2016		
2016-		
	6471479	9335537
2017		
	18109864	25832502
2017-		
2018		



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2018-	20037007	30130279
2019		
	21331270	28250182.2
2019-		
2020		



Inference : From the tabular and graphical representation 180% in 2017-18. It grew by 11% in 2018-19. In terms of of RTGS Outward it is inferred that number of RTGS value RTGS outward increased many times to 177% in outward transactions increased by 62% in year 2015-16 2017-18.

and by 20% in year 2016-17. It increased drastically to

Total_Volu	me Total_Value * Yea	ar O	
Year		Total_Volume	Total_Value
2014.00	Mean	40816833 60%	74889442.1740
	N	5	5
	Std. Deviation	48 36648 / .30706	150364918.92119
2015.00	Mean	5, 177725 8600	188266576.3480
	N	5 118	5
	Std. Dev 34.on	57143958.32080	399763731.43193
2016.00	Mean	122833982.0000	319480586.9660
	N	5	5
	Std. Deviation	115585136.26588	686685442.94526
2017.00	Mean	142363566.4000	296210302.9200
	N	5	5
	Std. Deviation	122549729.30233	605908535.57668

2018.00	Mean	19276	9410.0000	868401453.6400
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	N	5	5
	Std. Deviation	176066033.98068	1872585902.08672
	Mean	158328567.5000	31073295.2000
2019.00			
	N	4	4
	Std. Deviation	170667875.19532	4516107.97313
Total	Mean	117624891.8621	305535689.3462
	N	29	29
	Std. Deviation	124437930.79238	852145766.24735

Source:Spss

Inference: Ha is accepted and it shows a significant correlation in between selected digital banking services and demonetization along with covid -19 factor. It can be seen all the banking transactions like NEFT, RTGS and Mobile Banking increased after Demonetization in November – 2017. Similarly during Covid times from January 2020 onwards people were diverted to Digital transactions as lockdown forced them to stay in doors Ha1 accepted which shows a significant difference in between mean of selected digital banking services on the basis of selected year of study. Table deictic that hem for mobile banking is 189794857.2000 for volum of Mobile Banking from 2014-2019 ar 1 1678675. 45.8600 for amount in Mobile Banking. For 1 TGS Ir vard, mean for volume is 14840054.16 and 17850070.59 of for value. For RTGS Outward. 12, 42127.8333 is mean for volume of last six years and 1, 45587.0333 for value of last six years. 1387, 9038.60 57 is a mean of volume for NEFT Inward and 202 96 3.3367 is a mean for value. 244336709.00 20 is mean for volume of NEFT Outward and 21306359.32.3 is mean for value of NEFTOutward. **References:**

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