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A STUDY OF TRENDS IN E-BANKING WITH SPECIAL REFERENCE TO SELECTED PUBLIC SECTOR BANKS

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ABSTRACT:

Banking sector plays an important role in the development of the economy. The banking sector, in recent years, has been influenced and driven by the innovations in Information Technology. A host of new banking products have emerged and they are defining the significance of banks in the contemporary economic world. The present research work is undertaken to study the trends in e-banking with special reference to five public sector banks i.e. Bank of Baroda, Bank of India, Canara Bank, Central bank of India and State bank of

India. For the study, secondary data have been collected from RBI website, theses, books and journals. From the study, it is found that there is a tremendous increase in e-banking services in recent years. This indicates that the banking sector in India is progressing with an increased customer base.

KEYWORDS: Banking sector, recent trends, and development.

INTRODUCTION:

technology Information playing a vital role across the globe. India too is witnessing growth radical in the information technology. As a result, the Indian banking sector is transforming to offer better and enhanced banking services to its customers. The banking industry is compelled to change rapidly as a result of open market forces such as the threat competition. customer technological demand, innovations and growth of internet banking. If banks have to retain their competitiveness, they must focus on customer retention and relationship

management, upgrade and offer integration and value-added services.

The term electronic banking "the provision of refers to information or services by a bank to its customers, via a computer or television"(Allen et al, 2001). E-banking is a generic encompassing term internet banking, telephone banking, mobile banking, etc. In other words, it is a process of delivery of banking services and products through electronic channels such as telephone, internet, cell phone, etc. The concept and scope of E-banking are still Electronic services evolving. allow a bank's customers and other stakeholders to interact and transact with the bank seamlessly through a variety of

channels such as the internet, wireless devices, ATMs, online banking, phone banking, and telebanking. Other services offered under E-banking include fund electronic transfer, electronic clearing service and electronic payment media including the credit card, debit card, and smart card. Online banking helps consumers to overcome the limitations of place and time as they can bank anywhere, anytime as these services are available twentyfour hours, 365 days a year without any physical limitations of space like a specific bank branch, city or region. They also bypass the paper-based aspect of traditional banking. As compared developed countries, banking growth and

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development is at a nascent stage in India, yet the changing profile of customers and the resultant competition from the establishment of new private sector banks and foreign banks have provided a fillip to its growth. As a result, India has emerged as one of the fastest growing markets in the world.

Recently due to the merger of SBI and its subsidiaries there is a strategic restructuring in public sector banking. Size of a bank provides several leverages leading to specific advantages to stakeholders. Apart from that larger banks can invest more in automation, invest more in research and withstand adverse business environment at times. Banks are in competition within the sector and across the sectors, whether they want it or not.

OBJECTIVES OF THE STUDY:

The main objectives of the study are:

- 1. To analyze the trends in Electronic Clearing Service.
- 2. To analyze the trends in the National Electronic Fund Transfer and Real Time Gross Settlement.
- 3. To analyze the trends in Mobile Banking.
- 4. To draw a conclusion.

RESEARCH METHODOLOGY:

The present study analyses the trends in e-banking with special reference to selected public sector banks viz. Bank of Baroda, Bank of India, Canara Bank, Central Bank of India and State Bank of India of Kalaburagi district. The study is based on secondary data. The secondary data have been collected from the RBI reports, journals, books and websites.

LITERATURE REVIEW:

Internet accessibility, awareness, attitude towards change, computer and internet access costs, trust in one's bank, security concerns, ease of use and convenience are the major factors affecting the adoption of internet bank services in Malaysia (M. Sadiq Sohail& Balachandran Shanmugham ,2002). Wai-Ching Poon (2008) in his study reveals that privacy, security and convenience factors play an important role in determining the users' acceptance of e-banking services with respect to different segmentation of age group, education level, and income level. Customers are satisfied with e-banking due to its cashless nature, cash accessibility, time-saving and seamless transactions (Haadi Babatunde Asiyanbia and AjibolaAbdulrahamonIsholab, 2018). R. A. Gbadeyan& O. O. AKinyosoye-Gbonda (2011) in their paper conclude that e-banking has become an important phenomenon in the banking industry and it will continue as more progress and innovations are made in information technology. Luis V. Casalo ', Carlos Flavia 'n and Miguel Guinalı 'u (2008) say that the improvement of the levels of satisfaction and usability will promote customer loyalty and positive word-of-mouth. As a consequence, the retention-rate and profits of the e-banking business will be also increased. Abdullah Bin Omar (2011) concludes that the services which are not available in Pakistan by all banks e.g. cash depositing facility through ATM machines, "SMS/E-mail Alert" Service, Payment of utility bills through the internet, etc are the most desirable services by the customers. The benefit of modern banking services with all its modern technology and ultimate development must be extended to each and every citizen in every nook and corner of the nation (Mahalingam, 2016). M.Amutha (2015) says that Banking business is now becoming more competitive, and the customer benefits have come under sharp focus at the customer's end. There are several reasons for this intensified interest. The important one is, customers are becoming more and more critical of the service they receive. Many customers are not only desiring but longing for much better services. Dr.S.Sudalai Muthu(2015) found that more number of customers is using mobile banking services offered by various commercials in banks in Pondicherry. In addition, customers are satisfied with the mobile banking services offered by various commercial banks.

The Study

The researchers have analyzed the data pertaining to Electronic Clearing Service, National Electronic Fund Transfer, Real Time Gross Settlement and Mobile Banking vis-à-vis the banks under study. The researchers have worked out mean and standard deviation and analyzed the data with ANOVA.

ANALYSIS AND INTERPRETATION:

TABLE - 1
Trends in Electronic Clearing Service of the Banks under study (2013 - 2017)

ECS credit Vol	ume	,		the builts u			
Bank Names	2013	2014	2015	2016	2017	Mean	SD
Bank of						100069.60	134671.52
Baroda	270756	221918	7674	0	0		
Bank of India	0	0	0	0	0	0.00	0.00
Canara Bank	0	0	0	0	0	0.00	0.00
Central bank						0.00	0.00
of India	0	0	0	0	0		
State bank of						2943643.2	2627228.4
India	5877376	5206807	2974252	658734	1047	0	8
ECS credit Val	ue						
Bank Names	2013	2014	2015	2016	2017	Mean	SD
Bank of	5775530	790240131	5772583			28510380	37247763
Baroda	466	0	69.3	0	0	29.06	90.51
Bank of India	0	0	0	0	0	0.00	0.00
Canara Bank	0	0	0	0	0	0.00	0.00
Central bank				7		0.00	0.00
of India	0	0	0	0	0		
State bank of	9591205	899782003	3810718	75970633	275056	46324402	44931396
India	8238	06	7147	70	73	946.80	997.35
ECS debit Volu	ıme						
Bank Names	2013	2014	2015	2016	2017	Mean	SD
Bank of						420848.20	680753.45
Baroda	1584548	475988	43705	0	0		
Bank of India	0	0	0	0	0	0.00	0.00
Canara Bank	0	0	0	0	0	0.00	0.00
Central bank						0.00	0.00
of India	0	0	0	0	0		
State bank of	1720686		1015081			8731476.0	7249019.9
India	2	13651306	1	2421081	227320	0	6
ECS debit Valu	ıe						
Bank Names	2013	2014	2015	2016	2017	Mean	SD
Bank of		420790983	3907217			28231915	41408517
Baroda	038	3	30.7	0	0	20.34	16.27
Bank of India	0	0	0	0	0	0.00	0.00

Canara Bank	0	0	0	0	0	0.00	0.00
Central bank						0.00	0.00
of India	0	0	0	0	0		
State bank of	8434608	130800247	6416789	17065021	317608	59911016	51708493
India	3375	532.85	0952	645.68	6180	430.60	133.12

Table – 1 reveals the number of transactions of ECS debit and ECS credit. ECS debit is used for raising debits to a number of accounts of consumers/ account holders for crediting a particular institution and ECS credit is used for affording credit to a large number of beneficiaries by raising a single debit to an account such as dividend, salary payment, and interest, etc. From the above table, we can infer that ECS Credit volume of Bank of Baroda has decreased over the years i.e from 2013 to 2015 and there is no transaction in the year 2016 and 2017 and in SBI there is a decrease in the transactions over the years. ECS credit value of Bank of Baroda has decreased till 2015 and the value is NIL as there is no transaction during the year 2016 and 2017. SBI has also decreased in trend. ECS debit volume and value of Bank of Baroda has decreased but there is no transaction in the year 2016, 2017 and SBI is decreased over the years. There is no transaction in Bank of India as it has no approved center for ECS. Canara Bank and Central bank of India have no transactions because there is very less number of centers approved for ECS purpose, as per the data collected by RBI. Here, we can observe that there is a continuous decrease in ECS Transactions. This is due to formalities involved in ECS transactions and existence of Mobile Banking.

ANOVA					
		Sum of Squares	df	F	Sig.
ECS Credit Volume	Between Groups	34111058459868.2	4	6.161	0.002
	Within Groups	27681863550878.0	20		
	Total	61792922010746.2	24		
ECS Credit Value	Between Groups	8352169635932910000000.0	4	5.136	0.005
	Within Groups	8130817581172200000000.0	20		
	Total	164829872171051000000000.0	24		
ECS Debit Volume	Between Groups	298313893468191.0	4	7.034	0.001
	Within Groups	212046862278739.0	20		
	Total	510360755746929.0	24		
ECS Debit Value	Between Groups	140509206533089000000000.0	4	6.527	0.002
	Within Groups	10763659660137800000000.0	20		
	Total	248145803134468000000000.0	24		

The ANOVA analysis shows whether there is a statistical difference between the groups. We can see the significance value is 0.002 (i.e., p = 0.002), and 0.005 (i.e., p = 0.005) which is below 0.05 and therefore there is a statistical difference between selected public sector banks with regards to ECS Credit volume and value respectively. There is also an association between selected public sector banks with regard to ECS credit value and ECS debit volume as 'P' value is 0.005 and 0.001 respectively, which is below 0.05.

TABLE – 2 Trends in National Electronic Fund Transfer of the Banks under study (2013 – 2017)

OUTWARD DEB						udy (2013 – 2	,
Bank Names	2013	2014	2015	2016	2017	Mean	SD
		1439360	1562757	2245610	3668495	19433272.	10923195.
Bank of Baroda	8004132	1	2	6	1	40	86
		1598262	2222024	2307418	2423721	18560931.	7064933.9
Bank of India	7290386	1	8	8	6	80	7
		1919979	1452301	1992188	3096576	18668630.	8200326.1
Canara Bank	8732691	3	5	5	8	40	0
Central bank of		2300659	2709657	2766724	2384589	21785226.	8337922.3
India	7309827	2	4	1	7	20	1
State bank of	9892836	1704507	2698268	2297410	3050757	21480454	81844339.
India	2	47	40	71	03	4.60	92
OUTWARD DEB	IT AMOUN'	Γ (Rs. Millio	on)			1 / / /	L
Bank Names	2013	2014	2015	2016	2017	Mean	SD
Built Humes	576564.	880361.	1142478.	1809844.	2788308.	1439511.5	880618.37
Bank of Baroda	23	95	57	40	59	5	000010.57
Built of Burouu	377786.	520671.	715781.4	964513.0	1488571.	813464.89	436941.24
Bank of India	78	28	5	2	90	010101.09	150711.21
241111 01 111414	672289.	917016.	1202163.	1877473.	2869618.	1507712.2	884834.03
Canara Bank	30	41	81	31	58	8	
Central bank of	408653.	595750.	784801.5	1104060.	1713381.	921329.68	511912.01
India	47	91	7	56	89	721027.00	011712.01
State bank of	6327490	9407584	1247566	1504992	2282708	13217548.	6289671.4
India	.26	.28	3.89	0.46	3.27	43	6
INWARD CREDI'	T NO. OF TI	RANSACTIO	NS			l	L
Bank Names	2013	2014	2015	2016	2017	Mean	SD
Dank Hames	2256498	3753964	5566092	7365179	9482825	56849119.	28611250.
Bank of Baroda	3	0	2	9	4	60	07
Built of Buroud	2270806	4317771	5899737	6715176	7920040	54247065.	21960219.
Bank of India	8	3	1	9	7	60	46
- Buill of Illuiu	2080924	3169673	3415194	4398860	5797378	37724062.	14004422.
Canara Bank	5	2	8	6	3	80	98
Central bank of	70000	2762873	4190508	5201927	6442960	40051564.	19746530.
India	9	0	1	7	3	00	53
State bank of	1046980	1632177	2124499	2830606	3918946	23106420	11122957
India	81	78	52	18	16	9.00	5.02
	-						
INWARD CREDI	Ι Τ ΔΜΩΙΙΝΤ	(Rs Millio	n)				
Bank Names	2013	2014	2015	2016	2017	Mean	SD
Dank Hames	1089932	1491870	2002844.	2673035.	4029690.	2257474.6	1154077.9
Bank of Baroda	.41	.13	30	35	98	3	0
Dank of Daroud	1018712	1446535	1932975.	2601223.	3818259.	2163540.8	1096306.1
Bank of India	.05	.00	1532573.	25	01	9	8
Canara Bank	896709.	1373529	1875315.	2561894.	3630510.	2067591.7	1069661.8
Callal a Dallk	070/07.	13/3349	10/3313	4301074.	2020210.	200/3/11/	1007001.0

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	81	.03	58	21	04	3	8
Central bank of	650991.	931279.	1346550.	1751368.	2480489.	1432135.7	719257.24
India	34	12	49	23	58	5	
State bank of	6371034	8256944	1050985	1574871	2406026	12989362.	7115563.1
India	.30	.80	4.14	2.02	7.60	57	7

Table -2 depicts the transactions of NEFT inward credit and outward debit, which transfers fund from one bank to another. Under the NEFT system fund transfers takes place on Deferred Net Settlement basis and are take place in hourly batches. The result shown in the table is that there is a continuous increase in the NEFT outward debit volume and value of transactions and NEFT inward credit volume and value of transaction of Bank of Baroda, Bank of India, Canara Bank, Central Bank and State bank of India. There is high value and volume of transactions in SBI when compared to other selected banks. Among all Canara bank is the least amount of volume and value of transactions.

ANOVA					
		Sum of Squares	df	F	Sig.
Outward Debit Volume	Between Groups	152434241865448000.0	4	27.203	0.000
	Within Groups	28017967092469600.0	20		
	Total	180452208957918000.0	24		
Outward Debit Value	Between Groups	582403256681236.0	4	17.512	0.000
	Within Groups	166285434201910.0	20		
	Total	748688690883146.0	24		
Inward Credit Volume	Between Groups	136616077763117000.0	4	11.976	0.000
	Within Groups	57035690234221700.0	20		
	Total	193651767997339000.0	24		
Inward Credit Value	Between Groups	486900430954250.0	4	11.101	0.000
	Within Groups	219306119041905.0	20		
	Total	706206549996155.0	24		

ANOVA test is made to know the association between the groups. The analysis reveals that there is an association between selected public sector banks with regards to NEFT outward debit volume and value, inward credit volume and value as 'P' value is 0.000 which is less than the 0.05.

TABLE - 3
Trends in Real Time Gross Settlement of the Banks under study (2013 - 2017)

Inward volume						(2018 201	,
Bank Names	2013	2014	2015	2016	2017	Mean	SD
						3236711.4	474716.5
Bank of Baroda	2574673	3054384	3307199	3373178	3874123	0	8
						2464914.4	400299.5
Bank of India	1967576	2288226	2467909	2538473	3062388	0	2
						2067531.2	461610.6
Canara Bank	1461486	1858626	2073525	2233091	2710928	0	5

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Central bank of					l	1272583.6	271114.4
India	970577	1127514	1249641	1319479	1695707	0	3
State bank of	1229008	1363131	1421577	1498339	1817006	14658126.	2196427.
India	3	3	6	6	6	80	17
Inward value(in R	upees Billio	on)	l				l.
Bank Names	2013	2014	2015	2016	2017	Mean	SD
<u> </u>	2010	10346.2	2015	2010	2017	9797.72	353.23
Bank of Baroda	9712.334	1	9924.25	9479.48	9526.32	, , , , , ,	333.23
	11019.81	12138.7	12380.4	12042.9		12316.71	1076.04
Bank of India	7	5	3	7	14001.59		
	9114.398					9641.96	350.64
Canara Bank	6	9747.11	9988.80	9878.84	9480.66		
Central bank of	6847.968					6584.84	643.68
India	9	6184.70	5664.90	7005.96	7220.69		
State bank of	68314.08	69722.5	74067.2	88872.8	110812.3	82357.80	17872.56
India	8	3	7	1	2	×	
Outward volume							
Bank Names	2013	2014	2015	2016	2017	Mean	SD
Bank of Baroda	3124475	3598956	3880230	4019135	4510697	10575.99	240.57
Bank of India	2806247	3229895	3472056	3608724	4146081	12930.48	1570.81
Canara Bank	1717479	2163994	2393628	2567313	2896344	10803.77	812.72
Central bank of	1,1,1,,	2100771	2070020	200,015	2070011	7239.43	691.03
India	1460450	1740468	1839601	1965388	2366613	, 20,110	071.00
State bank of		1061324	1091807	1074332	1479560	83885.79	21664.43
India	9847391	2	9	4	2		
Outward value(in	Rupees Bil	lion)	L	L			1
Bank Names	2013	2014	2015	2016	2017	Mean	SD
		10855.6	10550.3	10301.5		10575.99	240.57
Bank of Baroda	10389.87	9	1	6	10782.52	10070.77	2 10.07
		12354.6	12936.2	12897.3		12930.48	1570.81
Bank of India	11069.30	7	8	0	15394.85	12,00.10	10,001
		10354.7	11074.7	11867.6		10803.77	812.72
Canara Bank	9711.67	8	0	6	11010.04		
Central bank of						7239.43	691.03
India	7340.17	6617.67	6448.04	7781.91	8009.34		
State bank of	<i>y</i>	69159.5	73469.9	90924.1	118808.7	83885.79	21664.43
India	67066.57	5	3	3	6		

The Table – 3 shows the transactions of RTGS inward and outward which transfer fund from one bank to another bank, but the transaction are settled as soon as they are processed on one to one basis without bunching with any other transaction. Here, it can be seen that there is a consistent upward trend in volume and value of inward and outward transactions of RTGS, as it is the fastest transfer of the fund to the beneficiary account. There is more increase in RTGS value and volume of SBI

when compared to other selected banks and it is observed that the Central bank of India has the least amount of transactions in terms of value and volume.

ANOVA					
		Sum of Squares	df	F	Sig.
Inward Volume	Between Groups	624850981487707.0	4	142.103	0.000
	Within Groups	21985901075579.2	20		
	Total	646836882563286.0	24		
Inward Value	Between Groups	21265903150.8	4	82.747	0.000
	Within Groups	1284993299.1	20		
	Total	22550896449.9	24		
Outward Volume	Between Groups	302145386143423.0	4	81.789	0.000
	Within Groups	18470916672458.8	20	1	
	Total	320616302815882.0	24		
Outward Value	Between Groups	21690972560.2	4	57.322	0.000
	Within Groups	1892043730.7	20		
	Total	23583016290.9	24		

ANOVA test reveals that the significance level is 0.000 (i.e., p=0.00) which is below 0.05 and therefore there is a statically significance between selected public sector banks with regards to RTGS value and volume of inward and outward transactions.

TABLE - 4
Trends in Mobile Banking of the Banks under study (2013 - 2017)

Volume (actual)							
Bank Names	2013	2014	2015	2016	2017	Mean	SD
				1265106	3078266	9736869.60	12729666.5
Bank of Baroda	664550	945634	3640427	8	9		6
					2151187	4469852.60	9529910.93
Bank of India	1363	367	597698	237958	7		
		110925		1709378	3180078	10967657.6	13467267.2
Canara Bank	124529	5	4709937	4	3	0	2
Central bank of						2354391.80	4083246.57
India	8626	23930	198769	2043781	9496853		
State bank of	491400	687827	1192563	2204681	2882933	149188114.	102227289.
India	09	14	30	75	43	20	88
	·						
Value (in Rs.'000))						

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Bank Names	2013	2014	2015	2016	2017	Mean	SD
	226602	434855	1453948	5366114	1690970	48782451.6	70374241.2
Bank of Baroda	5	1	6	2	54	0	6
					2912260	6815342.20	12540327.7
Bank of India	2574	136	3146411	1804990	0		7
		193972	1011032	1071015	1954267	84665642.0	78133226.7
Canara Bank	299455	23	53	44	35	0	7
Central bank of	27088.				3105966	8368324.11	13216930.1
India	55	51429	1683925	9019517	1		3
State bank of	322089	815679	4420635	4708344	3729050	179864716	224175055
India	03	06	31	602	889	6.20	3.90

Table - 4 depicts mobile banking service which is the act of making a financial transaction on a mobile device. From the table – 4 we can infer that the value of transactions through mobile banking has shown remarkable growth. The growth in the number of volume and value of transactions of all selected banks has increased. Among all the selected banks SBI indicates high value and volume of transactions, but the growth in volume and value of transactions has slowed down in the year 2014 as compared to 2013 of Bank of India.

ANOVA					
		Sum of Squares	df	F	Sig.
Mobile Banking Volume	Between Groups	81259703795170300.0	4	9.318	0.000
	Within Groups	43605290396466300.0	20		
	Total	124864994191637000.0	24		
Mobile Banking Value	Between Groups	12432085307609800000.0	4	3.085	0.039
	Within Groups	20147339311784200000.0	20		
	Total	32579424619394000000.0	24		

As per the ANOVA analysis, there is an association between selected public sector banks with regards to Mobile banking volume and value as 'P' value is 0.000 and 0.039 respectively which is less than the 0.05. when compared to the volume and value of transaction value is more significant.

CONCLUSION:

The researchers' aim of the study has been to analyze the trends in e-banking services of the public sector banks under study. The Bank of Baroda, Bank of India, Canara Bank, Central Bank of India and State bank of India is the leading banks in the public sector in the country. They provide a variety of services to the customers. Hence, the study undertaken reports the fast growth of mobile banking services both in terms of their value and volume of transactions when compared to the Electronic Clearing Service, National Electronic Fund Transfer, and Real Time Gross Settlement. It indicates fast growth in mobile banking services in India. The trends in banking sector highlighted in the study also indicate that banks are moving from traditional banking to modern banking services. The banking sector in India is progressing with the increased growth in the customer base, due to improved and innovative services provided by banks. Thus e-banking is the backbone of the present banking system.

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