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INTERNATIONAL JOURNAL OF RESEARCH AND ANALYTICAL REVIEWS (IJRAR) | IJRAR.ORG An International Open Access, Peer-reviewed, Refereed Journal

ASSET LIABILITY MANAGEMENT: A CASE OF TOP 7 PUBLIC SECTOR BANKS IN INDIA

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ABSTRACT

Asset Liability Management is one of the important process and the significant function through which the banks manage their balance sheet effectively. This helps the banks in mitigating their exposure to liquidity risk, interest rate risk, market risk, etc. and maximize the profitability of the bank. The job of ALM is carried out prudently by the ALCO of banks'. The significance of ALM increased with the deregulation of interest rates, increasing competition in the financial markets and the volatility in interest rates in the market. The present study is to analyse asset liability mismatches, emphasize how the Net Interest Income of top 7 public sector banks is impacted with interest rate changes and how the banks can manage their interest rate risk with the help of Gap Analysis. The study also includes sensitivity analysis for interest rate changes.

Keywords: Asset Liability Management, Gap Analysis, Interest rate risk, Net Interest Income.

IJRARTH00032International Journal of Research and Analytical Reviews (IJRAR) www.ijrar.org889

Asset Liability management is the process by which an institution manages its balance sheet to meet changes in the interest rate and mismatches in liquidity scenarios. Banks and other financial institutions, irrespective of size, provide services that expose them to a variety of risks which including credit risk, interest risk, and liquidity risk. Failure to identify the risk may have an impact on the financial institution's liquidity position. Asset Liability Management (ALM) is a risk management strategy for assessing such risk by making an attempt to analyse the gap between assets and liabilities in terms of their maturities and interest rate sensitivities in order to minimize the risk arising for banks from such a gap, primarily interest rate risk and liquidity risk. The Reserve Bank of India (RBI) has implemented the Basel III norms for Indian bank regulation, providing a framework for banks to develop ALM policies. At the macro-level, ALM leads to the formulation of critical business policies, the efficient allocation of capital, and the design of products with appropriate pricing strategies, whereas at the micro-level, ALM has two goals: profitability through price matching and liquidity through maturity matching. An effective asset-liability management system seeks to manage the volume, mix, maturity, rate sensitivity, quality, and liquidity of all assets and liabilities in order to achieve a predetermined, acceptable risk/reward ratio. ALM encompasses not only balance-sheet assets and liabilities such as deposits and lending, but also off-balance-sheet activities such as swaps, futures, and options.

NEED OF THE STUDY

Asset Liability Management (ALM) is a risk management mechanism used by banks to address the risk of a mismatch between assets and liabilities caused by liquidity or interest rate changes. The ability of an institution to meet its liabilities by borrowing or converting assets is referred to as liquidity. Aside from liquidity, the bank may experience a mismatch as a result of changes in interest rates, as banks typically borrow short term and lend long term. To reduce the risk of liquidity and interest rate exposures different techniques and strategies are used by banks. Gap Analysis is one among them.

- To calculate the Repricing Gap and Cumulative gaps between the assets and liabilities of select public sector banks.
- To study the trend in gaps of the select banks.
- To analyse Net interest income (NII) changes by conducting sensitivity analysis.

SCOPE OF THE STUDY:

Research is limited to computation and analysis of Repricing Gap, Cumulative gaps and Net interest income exposure of top 7 public sector banks in India for the last 3 years i.e., from financial year 2018-2021.

ABOUT ASSET LIABILITY MANAGEMENT:

Assets and Liabilities Management (ALM) is a dynamic process. Banks generally take deposits from customers and extend loans to clients. The loans and advances are the Assets in a Bank while Deposits of customers and other financial institutions and loans taken from other banks and financial institutions are the liabilities in a bank. All transactions of the banks revolve around raising and deploying the funds. ALM is the management of loans and advances and deposits of a bank. The primary responsibility of ALCO is to ensure proper Asset Liability mixes, volumes, maturities, yields and costs in order to achieve a specified Net Interest Income.

The concept of asset/liability management focuses on the cash flows and its timing as the banks must plan for their payments of liabilities. ALM has gained more importance as an initiative for risk management practices by our Indian banks. It can be said that asset-liability management in banks basically happens at 2 levels – micro level and macro level. At the macro-level, broad guidelines for the proper management of assets and liabilities will be ggiven by the ALCO which involves senior management of the bank. These guidelines will help in day-to-day decisions on making within the acceptable level/tolerance level of risks. At the micro-level, business managers will monitor the risk management as per the macro ALM guidelines.

ASSET LIABILITY MANAGEMENT COMMITTEE (ALCO)

ALCO is a supervisory committee comprising of senior management including the chairman/CEO of the bank, head of the credit department, head of forex department, head of treasury department, head of funds department, head of research department, head of MIS department etc. The major role of ALCO is to manage

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results in the increase of stock prices of the bank. The policies, procedures and strategies of ALCO should always be aligned with the bank's board goals, objectives and risk tolerance lvels. The ALCO meetings are conducted at least once in a quarter. This is not mandatory and if required the ALCO can meet and take the decisions if they feel it would impact the bank's performance. The major responsibilities of the ALCO include management of market risk tolerance, ensuring adequate liquidity while maintaining the interest rate spread, reviewing the impact of the regulatory changes on bank, introducing new products and their impact on the bank's performance, etc.

the assets and liabilities with an aim to earn adequate returns, and influence the net earnings which in turn

The scope of ALM function includes Liquidity risk management, Management of market risks (including Interest Rate Risk), Funding and capital planning, Profit planning and growth projection, Trading risk management

Commercial banks must measure and manage their liquidity requirements. Liquidity management can lessen the likelihood of an undesirable situation emerging by ensuring a bank's ability to satisfy its liabilities when they become due. The necessity of liquidity extends beyond individual institutions, since a liquidity shortage in one can have implications throughout the system. Bank management should monitor not only the banks liquidity situations on a regular basis, but also how liquidity requirements are anticipated to change in the event of a crisis. Assets have shown to be valuable in the past. Government securities and other money market products, which are commonly thought to be liquid, can become illiquid when the market and players are unidirectional. As a result, liquidity must be monitored via maturities or cash flow mismatches. A maturity ladder and the calculation of cumulative surplus or deficit of funds at selected maturity dates are used as a common instrument for measuring and managing net funding requirements.

The time buckets given the Reserve Bank of India for distribution of assets and liabilities as per the maturity profiles is as under:

- 1 to 14 days
- 15 to 28 days
- 29 days and upto 3 months
- Over 3 months and upto 6 months
- Over 6 months and upto 12 months

- Over 1 year and upto 2 years
- Over 2 years and upto 5 years
- Over 5 years

Depending on cash inflows and withdrawals, there may be imbalances within each time bucket. The mismatches up to a year are important because they provide early warning signs of liquidity concerns for future. The short term mismatches in the maturity buckets of 1-14 days and 15-28 days should be focused more. The banks should also keep track of the cumulative mismatches in overall time buckets as per the set prudential norms by board/management decisions. In any kind of situation, the cash outflows during 1-14 days and 15-28 days should not exceed 20% of the total cash outflows in each time bucket.

If there is any necessity for a higher tolerance level of the bank's asset-liability profile, it could operate with a higher limit sanctioned by the Board of Directors or Management Committee with proper justifications for setting up higher limits of tolerance. A copy of the same should be sent to the Department of Banking Supervision of the Reserve Bank of India. The higher tolerance level set is intended to be used for temporary purposes until the bank stabilizes its asset-liability patterns.

REVIEW OF LITERATURE

Madhu Vij (2016) studied the usage of ALM for managing liquidity risk and interest rate risk of Citi bank, ICICI bank, IDBI bank and SBI. The study revealed that the process of ALM will differ from bank to bank and the success of the technique will depend upon how effectively the banks are able to forecast and manage the risk they carry and are exposed to.

Sheela P and Tejaswini Bastray (2015) compared the ALM practices of UBI and ICICI bank using gap analysis. The study revealed that interest rate risk is measured through the use of gap analysis. For filling the short-term liquidity gap, bank is resorting to market borrowing at high rate of interest which causes reduction in interest margin and the profitability of bank.

Amit Kumar Meena, Joydip Dhar (2014) in their study of asset-liability management in top three banks from each group of public, private, and foreign banks found that the liquidity structure of banks is stable but the cash maintained with them might create problem in the long run as it leads to profit reduction.

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sector banks, fourteen private sector banks, and ten foreign banks found that ownership and structure of the banks have an impact on the bank's ALM procedure. They found that SBI and its Associates have the best asset-liability maturity pattern.

Mihir Dash & Ravi Pathak (2013) in their study on Asset Liability Management of twenty-seven public

Dr. Kanhaiya Singh (2013) in their study which dealt with 5 years data of both public and private sector banks analysed the impact of measures and strategies banks undertake to manage asset-liability composition has impact on the performance and profitability.

Mihir Dash (**2011**) in the study has taken 20 private sector banks, 10 foreign banks and 26 public sector banks and has done the Gap analysis and cumulative gap analysis to know the liquidity position of banks. The results of the study suggest that the public sector banks had a better short-term liquidity position than the private sector banks and foreign banks.

Kajal Chaudhary and Monika Sharma (2011) in their study revealed that public banks must pay attention while selecting the borrowers and also should decrease the NPA level. The perspective of management also defines the risk profile of banks in few situations which further determines the liquidity and profitability trade-off.

RESEARCH METHODOLOGY

The data required for this study includes the maturity profiles of assets and liabilities of banks for the period of study i.e., last 3 years from 2018-2021. The data collected is from the secondary sources i.e., from the respective bank's annual report. The sample for the study includes top 7 public sector banks that are selected based on the bank's market capitalization. The banks include State Bank of India, Bank of Baroda, Central Bank of India, Punjab National Bank, Canara Bank, Bank of Maharashtra, and Bank of India.

Gap analysis is the widely accepted method by the banks and other financial institutions for measuring the exposure of interest rate risk. The tool used for conducting and interpreting Gap analysis in this study is MS Excel. The gaps (difference between the value of total rate sensitive assets and rate sensitive liabilities) and cumulative gaps (net summation of calculated gaps) for all the selected banks for 3 years are calculated with the help of Gap Analysis. The study also includes Sensitivity Analysis performed on one year data i.e., 2020-2021 to analyse the impact of interest rate changes on the Net Interest Income of the bank.

DATA ANALYSIS

The data collected for the study is analysed by conducting Gap Analysis. The gaps and cumulative gaps are calculated with the help of Excel. The maturity profile of Bank of Baroda for the year 2018-19 is as follows:

					Ba	nk of Baroda				
		2 to	8 TO	15 TO	Over 28	Over 3 months	Over 6	Over 1 year	Over 3 years	Over
	Day	7	14	28	days up to 3	and up to 6	months and	and upto 3	and up to 5	5
Details	1	days	DAYS	DAYS	months	months	up to 1 year	years	years	years
	185	101								
	23.	11.8	7608.1	26607.						8435
Advances	36	7	2	86	28981.27	20905.57	25938.28	194884.5	50899.77	8.17
	153	158		1405.6						1022
Investments	.72	1.82	236.22	7	4680.44	5225.05	7432.81	32851.1	26469.65	61.6
Foreign	432									
Currency	76.	747	6041.6	12468.						9438.
assets	72	1.07	7	4	27743.43	19231.42	13874.88	22665.46	20210.13	9
		201								
	799	17.4	11969.	17813.						1354
Deposits	5.1	1	02	19	65081.82	64330.91	98994.46	183272.3	33701.91	13.7
	157	144								
	3.2	28.6								
Borrowings	4	1	15700	0	3010.55	10488.65	8376.75	7361.2	6262.31	0
Foreign	918	246								
Currency	9.8	12.4	3696.6	10485.						1287.
liabilities	6	3	2	28	38754.33	32449.24	34881.8	29425.19	9827.41	37

Source: Annual Report

In the same manner the maturity profiles for all the three years 2018-19, 2019-20 and 2020-21 for 7 banks has been considered and the analysis is done.

The gap and cumulative gaps calculated for Bank of Baroda for all the three years is depicted in the below table. The gaps are calculated by subtracting the rate-sensitive liabilities from the rate-sensitive assets. The same calculations are done for all the seven banks considered for the study.

		2-7	8 - 14	15-28	Over 28 days	Over 3 months	Over 6 months	Over 1 year	Over 3 years	Over
Deta	Day	DA	DAY	DAY	up to 3	and up to 6	and up to 1	and up to 3	and up to 5	5
ils	1	YS	S	S	months	months	year	years	years	years
					Η	Bank of Baroda 201	8-19			
	619	1916	13886	40481						19605
RSA	53.8	4.76	.01	.93	61405.14	45362.04	47245.97	250401	97579.55	8.7
	187	5915	31365	28298						13670
RSL	58.2	8.45	.64	.47	106846.7	107268.8	142253	220058.6	49791.63	1
		-	-							
	431	3999	17479	12183						59357
Gap	95.6	3.7	.6	.46	-45441.6	-61906.8	-95007	30342.39	47787.92	.64
			-	-						-
C.	431	3201	14277	2094.						66961
Gap	95.6	.91	.7	26	-47535.8	-109443	-204450	-174107	-126319	.7
	Bank of Baroda 2019-20									

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DSA	125 931. 7	1260	10000	21786	84054 31	66055 42	75520 33	300836.0	170997.9	21402		
КЗА	100	7.05	.//	.75	64954.51	00033.42	13329.33	399630.9	170997.9	0.0		
	196	2074	60006	25241						27020		
DOL	89.7	38/4	60986	35341	121501.0	0.4707.00	10/01/0	202000 4	0.60.65.0.6	27928		
RSL	9	0.36	.88	.86	131501.8	84707.99	1/6/16./	302900.4	86265.06	3.9		
	106	-	-	-						-		
	241.	2613	50986	13555						65257		
Gap	9	3.3	.1	.1	-46547.5	-18652.6	-101187	96936.49	84732.8	.2		
	106									-		
C.	241.	8010	29122	15567						34407		
Gap	9	8.57	.46	.35	-30980.1	-49632.7	-150820	-53883.5	30849.26	.9		
					E	ank of Baroda 2020)-21					
	105	1655	30538	17581						20520		
RSA	744	4.37	.91	.96	52638.66	47235.85	61238.98	457833	170223.5	0.9		
	242											
	64.1	7150	27131	45415						29547		
RSL	4	0.44	.37	.06	87761.58	79924.82	139180.4	322284.5	80584.12	5.2		
	814	-		-						-		
	79.8	5494	3407	27833						90274		
GAP	7	6.1	.54	.1	-35122.9	-32689	-77941.4	135548.5	89639.34	.4		
	814	0.12										
Cum	79.8	2653	29941	2108						8731		
GAP	7	3.8	.34	2100.	-33014.7	-65703.7	-143645	-8096.55	81542.79	56		

The interpretation of gap analysis is shown below with the help of charts for all the 7 banks for the time period considered in the study. The positive gap indicates that there are more of assets repricing than the liabilities whereas the negative gap indicates that the liabilities are repricing at a faster pace than the assets. The banks also adopt the strategies to maintain positive or negative gaps to cope up with interest fluctuations in the market at the respective time duration.



The bucket wise distributions of maturity gaps depict that in the year 2018 to 2019 the maturity buckets of 2 to 7 days, 8 to 14 days, over 28 days and upto 3months, over 3 months and upto 6 months, over 6 months and upto 1 year have negative gap.

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months, over 3 months and up to 6 months, over 6 months and up to 1 year have negative gaps and the remaining buckets are depicting a positive gap.

From the year 2019-2020 maturity buckets of 2 to 7 days, 8 to 14 days, 15 to 28 days, over 28 days up to 3

From the year 2020-2021 the maturity buckets with negative gap are 2 to 7 days, 8 to 14 days, 15 to 28 days, over 28 days up to 3 months, over 3 months and up to 6 months, over 6 months and up to 1 year, over 1 year and up to 3 years, over 3 years and up to 5 years, over 5 years.



The cumulative gaps depict that in the year 2018-19 the maturity buckets of Day 1 and 2 to 7 days have positive gap and the remaining buckets have negative cumulative gap.

For the year 2019-2020 the cumulative gap is positive for the buckets day 1, 2 to 7 days, 8 to 14 days, 15 to 28 days and over 3 years up to 5 years.

From the year 2020-2021 the cumulative gap is positive for day 1, 2 to 7 days, 8 to 14 days, 15 to 28 days, over 3 years and up to 5 years' time buckets and the remaining buckets have negative cumulative gap.

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The bucket wise distributions of maturity gaps depict that in the year 2018 to 2019 the positive gap Day 1, over 5 years. The remaining figures of maturity buckets are in negative. The most affected positive and negative gaps are day 1 maturity bucket i.e., 6429.01 crores and over 28 days up to 3 months maturity bucket i.e., -19628.37.

From the year 2019-2020 the positive gap maturity buckets are as follows over 6 months and up to 1 year, over 1 year and up to 3 years, over 5 years. The remaining figures of maturity buckets are in negative. The most affected positive and negative gaps are over 1 year and up to 3 years maturity bucket i.e., 24442.03 and over 28 days up to 3 months maturity buckets i.e., -40349.55.

From the year 2020-2021 the positive gap maturity buckets are as follows over 6 months and up to 1 year, over 1 year and up to 3 years, over 5 years. The remaining figures of maturity buckets are in negative. The most affected positive and negative gaps are over 1 year and up to 3 years maturity bucket i.e., 28244.32 over 3 years and up to 5 years maturity buckets i.e., -48102.22



The cumulative gap calculations helps in ascertaining the mismatches of asset-liability for long term than in the short-term time buckets. If we consider the time bucket of over 1 year and upto 3 years, we can observe that the cumulative gap is Rs. - 100105.4 cr. This means that if we want to understand the position of assets-liabilities maturity/repricing over a period of 1 year - 3 years, it shows that there are more of liabilities repricing or maturing than assets and hence the bank can concentrate on assets repricing by analysing the future interest rate changes to avoid interest rate risks.

The cumulative gaps depict that in the year 2018 to 2019 there is a positive gap for Day 1 bucket and the remaining maturity bucket gaps are in negative.

From the year 2019-2020 and 2020-2021 all the cumulative gaps are in negative. This can also be a strategy opted by the bank intentionally to take advantage of the falling interest rates situation during that time.



The maturity gaps depict that in the year 2018 to 2019 there is a positive gap in the buckets of Day 1, 2 to 7 days, 15 to 28 days, over 28 days up to 3 months, over 3 months and up to 6 months, over 1 year and up to 3 years, over 5 years. The remaining maturity buckets are having a negative gap.

In the year 2019-2020, most of the maturity buckets for short term duration are having a positive gap because of falling interest rates at that time.

In the year 2020-2021 the gaps are positive for the maturity buckets of over 6 months and up to 1 year, over 1 year and up to 3 years, over 5 years. The remaining maturity buckets are in negative.



The cumulative gaps in the year 2018 to 2019 are positive for day 1, 2 to 7 days, 8 to 14 days, 15 to 28 days, over 28 days up to 3 months, over 3 months and up to 6 months buckets.

For the year 2019-2020 the positive gaps are observed in 2 to 7 days, 8 to 14 days, 15 to 28 days, over 28 days up to 3 months, over 3 months and up to 6 months and the remaining are in negative. The highest positive and negative gaps are over 1 year and up to 3 years maturity bucket i.e.,Rs.13630.06 crores and over 6 months and up to 1 year maturity bucket i.e.,Rs. -25776.92 crores. In the year 2020-2021 all the buckets are having a negative cumulative gap.



In the year 2018-2019 the positive gaps are observed in Day 1, 15 to 28 days, over 3 years and up to 5 years, over 5 years maturity buckets. The remaining figures of maturity buckets are in negative. The most affected positive and negative cumulative gaps are over 3 years and up to 5 years maturity bucket i.e., 38083.47 crores and over 6 months and up to 1 year maturity bucket i.e., -78547.09.

From the year 2019-2020 the positive gap day 1, 15 to 28 days, over 28 days up to 3 months, over 3 years and up to 5 years, over 5 years. The remaining figures of maturity buckets are in negative. The most affected positive and negative gaps are over 5 years maturity bucket i.e., 181556.5 crores and over 6 months and up to 1 year bucket i.e., -39794.14.

From the year 2020-2021 the positive gap day 1,15 to 28 days, over 3 years and up to 5 years, over 5 years. The remaining figures of maturity buckets are in negative. The most affected positive and negative gaps are over 5 years maturity bucket i.e., 223038.33 crores and over 6 months and up to 1 year maturity bucket i.e., -93243.09.

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The distributions of cumulative gaps over 3 years depicts that in the year 2018-19 there are more of positive gaps for the buckets except the long term buckets over 6 upto 1 year – over 5 years. Canara bank made an advantage of falling interest rate scenario. In the year 2020-21, the bank maintained more of negative gaps with the decreasing interest rates at that time so that the impact on NII would be positive for the bank.

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The maturity gaps in the year 2018-2019 are positive in the buckets Day 1, 2 to 7 days,15 to 28 days and over 5 years. The remaining gaps are in negative. In the year 2019-2020 the positive gap maturity buckets are Day 1, 15 to 28 days, over 3 months and up to 6 months, and over 5 years. The remaining maturity buckets are holding negative gaps. The year 2020-2021 has positive gaps in Day 1, 2 to 7 days,15 to 28 days, over 3 months, over 5 years buckets and the remaining maturity buckets are in negative.



The cumulative gaps for Central Bank of India in the year 2020-21 are more of positive in nature for both

short and long durations. As there was a decreasing interest rates scenario, the strategy used by the bank for maintaining positive gaps might lead the bank to face liquidity issues if not corrected.





Punjab National Bank maintained negative gaps in most of the maturity buckets taking an advantage of the falling interest rates and maintained the sound ALM policy. The bank might have taken care by being vigilant of the changes in interests to occur in future by using various hedging strategies.





State Bank of India maintained negative cumulative gaps in most of the maturity buckets. This gives a picture of sound ALM policy maintained by the bank aligning with changing interest rate scenarios and also being attentive towards futuristic changes in interest rates.

Sensitivity Analysis:

One of the research objectives is to analyse the impact of interest rate changes on the net interest income of the bank. For this, 2 different interest rate change scenarios are considered in this study:

- Interest rate decrease by 50 basis points and
- Interest rate increase by 50 basis points.

The present study includes the sensitivity analysis for the year 2020-21 for all the banks considered in this study.

The net interest income of the bank can be defined as the difference between interest income received by the bank and the interest expended by the bank.

Net Interest Income, NII = Interest Income – Interest Expense

The change in NII can be calculated with the following formula:

 \blacktriangle NII = Gap * Change in interest rate

Gap = Rate Sensitive Assets – Rate Sensitive Liabilities.

The following table gives information about the impact of interest rate sensitivity towards NII.

	NII IMPACT ANALYSIS	
GAP	INTEREST RATE MOVEMENT	IMPACT ON NII
POSITIVE (RSA>RSL)	UP	POSITIVE
POSITIVE (RSA>RSL)	DOWN	NEGATIVE
NEGATIVE(RSL>RSA)	UP	NEGATIVE
NEGATIVE(RSL>RSA)	DOWN	POSITIVE
ZERO (RSA=RSL)	UP OR DOWN	Zero impact on NII

The sensitivity analysis is basically conducted after the preparation of gap report. This analysis is done to ensure that the banks can absorb the undefined negative impact due to adverse movement in interest rates. The duty of performing this analysis is entrusted with the ALCO of a bank so that the gaps can be managed within the prescribed limits set by the bank.

• Scenario 1: Interest rate decrease by 50 basis points

The sample calculation for the first bucket of Bank of Baroda considering the gap value for 2020-21 is as follows:

This can be interpreted as: "If the gap is positive and if the interest rate is likely to decrease in the future, then there would be a negative impact on the bank's NII. Here the NII is likely to decrease by Rs 407.4 cr". To overcome this scenario, the bank must either focus on increasing its RSL so that there would be a negative gap which helps in maintaining positive NII or try to maintain a zero gap so that there would be no change in the NII.



From the above graph it can be interpreted that in the short-term maturity buckets, State Bank of India, Bank of India and Bank of Maharashtra are depicting positive NII values. This clearly states that the banks are maintaining a sound ALM strategy and are least exposed to the interest rate risk. These banks might have focussed on the future interest rate changes and also been vigilant by taking positions in interest swaps, futures and options. In the long run, SBI, Canara Bank and Bank of Baroda are exposed more to the interest rate shocks as they are carrying the highest negative gap values and these banks can take corrective measures for sustaining the shocks.





In this scenario, the study includes the testing of effect of NII when the interest rate increases by 100 basis points on all the maturity buckets for all the banks during the year 2020-21. In general, it can be said that the banks which are maintaining positive gaps could be benefitted as the NII can also have a positive impact. From the table, it can be stated that State Bank of India would be most affected by the NII as it has negative results in short term but in the long run, it is having a positive impact on NII. Hence the bank can take measures to balance the NII from getting adversely impacted by the interest rate deviations. It can either focus on increasing its RSA or decreasing its RSL so the negative gap reduces. It can also try to maintain a zero-gap so that the Net Interest Income of the bank would not be impacted. Besides SBI, all the other banks are also having a negative NII value for the scenario of increasing interest rates which might lead the bank to liquidity issues. The banks must have a critical analysis of their cash flows and repricing dates of their assets and liabilities so that they can maintain a good ALM policy.

The other strategies that the banks can use to strengthen their balance sheet is to cover its risk exposures by taking positions in the interest rate and currency derivatives, by implementing securitization on the assets that are not generating any cash flows to the banks, by financing the gaps from call/term money borrowings, repos and bills discounting, by following up NPAs, accurate forecasting of cash flows, etc.

There is a lot of importance given by RBI to the area of Asset Liability Management in Banks. ALM enhances the focus on the risk management area and also attempts to match the assets and liabilities as per the maturities and also the interest rate sensitivities. ALM helps the banks in mitigating the risks that arise due to the mismatches of assets and liabilities and also the liquidity risk. RBI has entrusted the job of ALM on ALCO of respective banks so that they review the variances in actual performances and also the projected performances with regards to the balance sheet ratios, Besides these in the present-day situation, technology also has a huge impact on the Banking Industry and they cannot ignore the importance of ALM. Net Interest Margin, and spreads. Basically the ALM process might differ for every bank but the successful implementation of ALM depends on how well the banks are able to manage the risk and also forecast their risk exposures. Most of the studies and research stated that the banks can implement effective ALM policy only when the assets and liabilities data including the off-balance sheet transactions data is available promptly so that the residual maturity gaps can be decreased. Though the Indian banks use computerized mechanisms for the ALM process, the availability of real-time data is still a challenge. The time involved in preparing a gap report and analyzing the report to take corrective actions can also lead to change in the maturity dates/repricing dates of short-term maturity/repricing buckets and the strategy implemented by the ALCO may not be effective. Hence, the MIS team of the bank plays a vital role in ALM process by providing timely data in preparing reports to analyse the deposit and lending pattern trends. The economic research division of the banks should also focus on providing the timely data required for forecasting the future trends in lending and borrowing patter, interest rates and exchange rates. It can be concluded that the MIS division of a bank and the economic research division of a bank help in assessing and mitigating the current risk and future risks.

Vij, M. (2005). Managing Gap: A Case Study Approach to Asset-Liability Management of Banks. Vision, 9(1), 49–58.

Sheela, P., & Bastray, T. (2015). Asset-Liability-Management–A comparative study of a public and private sector bank. *IRJBM–(www. irjbm. org) Volume No–VIII*.

Meena, A. K., & Dhar, J. (2014). An empirical analysis and comparative study of liquidity ratios and assetliability management of banks operating in India. *International Journal of Social, Human Science and Engineering*, 8(1), 4968-4974.

Singh, K. (2013). Asset-liability management in banks: A dynamic approach. *AIMA Journal of Management* & *Research*, 7(2), 1-14.

Dash, M., & Venkatesh, K. A. (2011). An Analysis of Asset-Liability Management in Indian Banks.

Ravi Kumar, T. (2020). Asset Liability Management.2nd Edition. Vision Books Pvt. Ltd. NewDelhi.

https://rbidocs.rbi.org.in/

https://www.bankofbaroda.in/

https://www.sbi.co.in/

https://bankofmaharashtra.in/

https://canarabank.com

https://bankofindia.co.in/

https://www.centralbankofindia.co.in/en

https://www.pnbindia.in/

Annexures:

	2018-19										
	Bank of Baroda										
Deta ils	Day 1	2 to 7 days	8 TO 14 DAYS	15 TO 28 DAYS	Over 28 days up to 3 months	Over 3 months and up to 6 months	Over 6 months and up to 1 year	Over 1 year and upto 3 years	Over 3 years and up to 5 years	Over 5 year s	
RSA	61953.8	19164.76	13886.0 1	40481.93	61405.14	45362.04	47245.97	250401.03	97579.55	1960 58.6 6	
RSL	18758.2	59158.45	31365.6 4	28298.47	106846.7	107268.8 142253.01		220058.64	49791.63	01.0	
GA P	43195.6	-39993.69	17479.6 3	12183.46	-45441.56	-61906.76	-95007.04	30342.39	47787.92	5935 7.64	
m Gap	43195.6	3201.91	- 14277.7 2	-2094.26	-47535.82	-109442.58	-204449.62	-174107.23	-126319.31	- 6696 1.67	
					Bank of In	dia					
						uia			Over 3	Over	
Deta ils	eta bay 1 2 to 7 days DAYS DAYS DAYS Over 28 days months dat up to 6 months and up to 1 year years years years									5 year s	
RSA	22956.0 1	15056.68	9568.38	15326.73	86560.85	44604.84	58778.69	134838.75	64158	1360 41.7 6	
RSL	16527	53365.05	15954.2 6	22976.36	106189.22	65040.38	66148.33	141595.68	82710.28	1348 86.2	
GA P	6429.01	-38308.37	- 6385.88	-7649.63	-19628.37	-20435.54	-7369.64	-6756.93	-18552.28	.56	
Cum m			38265.2							1175 02.0	
Gap	6429.01	-31879.36	4	-45914.87	-65543.24	-85978.78	-93348.42	-100105.35	-118657.63	7	
					Bank of Mahai	rashtra			Over 3	Over	
Deta ils	Day 1	2 to 7 days	8 TO 14 DAYS	15 TO 28 DAYS	Over 28 days up to 3 months	Over 3 months and up to 6 months	Over 6 months and up to 1 year	Over 1 year and upto 3 years	years and up to 5 years	5 year s	
RSA	1596.33	9896.39	2870.92	6022.37	10759.52	11915.55	9668.78	42162.23	13412.94	5446 9.16	
RSL	1234.82	8861.05	4136.43	4520.39	10294.82	10742.98	44358.67	25357.33	44393.35	6133 .91	
Gap	361.51	1035.34	- 1265.51	1501.98	464.7	1172.57	-34689.89	16804.9	-30980.41	4833 5.25	
Cum m Gap	361.51	1396.85	131.34	1633.32	2098.02	3270.59	-31419.3	-14614.4	-45594.81	2740 .44	
					Canara Ba	nk				0	
Deta ils	Day 1	2 to 7 days	8 TO 14 DAYS	15 TO 28 DAYS	Over 28 days up to 3 months	Over 3 months and up to 6 months	Over 6 months and up to 1 year	Over 1 year and upto 3 years	years and up to 5 years	5 year s	
RSA	36741.5 5	13258.28	14178.0 8	36142.75	55193.06	51376.56	63205.62	118385.26	67865.41	1827 63.3	
RSL	6389.61	33666.64	17978.5 6	16096.49	66975.78	55258.91	141752.71	269729.53	29781.94	3745 2.05 1453	
GA P Cum	30351.9 4	-20408.36	3800.48	20046.26	-11782.72	-3882.35	-78547.09	-151344.27	38083.47	11.2 5	
m Gap	30351.9 4	9943.58	6143.1	26189.36	14406.64	10524.29	-68022.8	-219367.07	-181283.6	3597 2.35	
				[Central Bank o	of India			Over 3	Over	
Deta ils	Day 1	2 to 7 days	8 TO 14 DAYS	15 TO 28 DAYS	Over 28 days up to 3 months	Over 3 months and up to 6 months	Over 6 months and up to 1 year	Over 1 year and upto 3 years	years and up to 5 years	5 year s	
RSA	55976.0 7	3654.81	1566.39	7590.84	11188.95	8320.93	12661.46	78979.36	25258.57	6805 2.14	
RSL	1943.35	2354.39	1875.1	5061.08	16118.04	11595.19	25972.84	135783.3	52000.44	4947 6.18	
P	2	1300.42	-308.71	2529.76	-4929.09	-3274.26	-13311.38	-56803.94	-26741.87	5.96	

	1						, ,				· · · ·
Cum m											-
GA P	54032.7 2		55333.14	55024.4 3	57554.19	52625.1	49350.84	36039.46	-20764.48	-47506.35	2893 0.39
					-	Punjab Nation	al Bank				
						Over 28 days	Over 3 months	Over 6	Over 1 vear	Over 3	Over 5
Deta				8 TO 14	15 TO 28	up to 3	and up to 6	months and	and upto 3	up to 5	year
ils	Day 1	2 to 7 da	ays	DAYS	DAYS	months	months	up to 1 year	years	years	s
											2483 67.8
RSA	7400.71		6420.65	2963.2	20663.6	23033.27	22714.48	36598.65	261194.68	77062.79	3
	17539.0			23132.7							1497 90.2
RSL	8		34882.83	7	41550.41	119280.6	53282.13	41687.54	108968.25	167287.49	6
GA	- 10138 3			- 20169 5							9857
P	7	-:	28462.18	2010).5	-20886.81	-96247.33	-30567.65	-5088.89	152226.43	-90224.7	7.57
Cum											
GA	10138.3			- 58770.1							5098
Р	7	-	38600.55	2	-79656.93	-175904.26	-206471.91	-211560.8	-59334.37	-149559.07	1.5
						State Bank of	India				
							India			Over 3	Over
Data				9 TO 14	15 TO 29	Over 28 days	Over 3 months	Over 6	Over 1 year	years and	5
ils	Day 1	2 to 7 da	ays	DAYS	DAYS	months	months	up to 1 year	years	years	s
	66550 7		-	16016.0							1019
RSA	66550.7 7		22959.88	16216.0 5	62921.38	131204.79	130481.57	184200.86	1354465.03	555382.25	966. 99
											8989
RSL	61736.5 1	1	73961.22	46751.8	120530.85	344986.05	349281.3	657626.14	638044 19	380365.73	44.5
TIGE	-	-		-	120000100	211,00100	0.020110	007020111	00001117	200202112	1210
GA	4814.26	1	51001 34	30535.7	57600 47	213781.26	218700 73	173125 28	716420.84	175016 52	22.4
Cum	4014.20	-1	51001.54	0	-37009.47	-213781.20	-218739.73	-473423.28	/10420.04	175010.52	-
m				-							1278
P	4814.26	-1-	46187.08	84	234332.31	-448113.57	-666913.3	-1140338.58	-423917.74	-248901.22	1 1
						2019-20					
						Bank of Bai	oda				
										Over 3	Over
Deta			2 to 7	8 TO 14	15 TO 28	Over 28 days up to 3	Over 3 months and up to 6	Over 6 months and	Over 1 year and upto 3	years and up to 5	5 vear
ils	Day 1		days	DAYS	DAYS	months	months	up to 1 year	years	years	s
			12607	10000 7							2140
RSA	12	5931.67	05	7	21786.75	84954.31	66055.42	75529.33	399836.89	170997.86	6
			38740	60986.8							2792
RSL	1	<u>9689.7</u> 9	36	8	35341.86	131501.77	84707.99	176716.68	302900.4	86265.06	4
C^			-	-							-
P	10	6241.88	20155. 31	1 1	-13555.11	-46547.46	-18652.57	-101187.35	96936.49	84732.8	7.18
Cum			80100	20122.4							
P	10	6241.88	57 80108.	29122.4 6	15567.35	-30980.11	-49632.68	-150820.03	-53883.54	30849.26	7.92
						Bank of In	dia			Over 3	Quer
						Over 28 days	Over 3 months	Over 6	Over 1 year	years and	5
Deta	Dev 1		2 to 7	8 TO 14	15 TO 28	up to 3	and up to 6	months and	and upto 3	up to 5	year
115	Day I		uays	DAIS	DAIS	monuis	monuis	up to 1 year	years	years	2078
DG		7102.05	7794.2	CE 40.07	15061.06	51040.05	01201 20	41004.10	174507.00	77010 75	95.0
къа		/123.05	9	0348.37	13801.30	51949.05	21/01.79	41224.13	1/4586.99	//812.75	1 1922
DO	-	0000 77	24672.	23678.4	0	00000 -	1-1	0.000 5.5	150144.05	070015	57.9
RSL	2	0233.77	- 73	- 8	26663.5	92298.6	45466.76	36239.56	150144.96	97884.5	5
GA			16878.	17130.1							1563
P	-	3110.72	- 44	- 1	-10802.14	-40349.55	-23764.97	4984.57	24442.03	-20071.75	7.06
GA			19989.	37119.2							8704
Р	-	3110.72	16	7	-47921.41	-88270.96	-112035.93	-107051.36	-82609.33	-102681.08	4.02
1						Bank of Mahai	rashtra				

Deta ils	Day 1		2 to 7 days	8 TO 14 DAYS	15 TO 28 DAYS	Over 28 days up to 3 months	Over 3 months and up to 6 months	Over 6 months and	Over 1 year and upto 3 years	Over 3 years and up to 5 years	Over 5 year
RSA	Day I	896.9	5260.2	2738.69	5892.97	15002.52	17963.63	15706.36	24544.87	18365.04	5781 0.55
RSL		1283.6	3288.6	2407.44	5259.37	10611.2	11274.64	44046.33	35611.88	13459.11	3766 1.51
GA P		-386.7	1971.6	331.25	633.6	4391.32	6688.99	-28339.97	-11067.01	4905.93	2014 9.04
Cum GA P		-386.7	1584.9	1916.15	2549.75	6941.07	13630.06	-14709.91	-25776.92	-20870.99	- 721. 95
						Canara Ba	ink				
Deta ils	Day 1		2 to 7 days	8 TO 14 DAYS	15 TO 28 DAYS	Over 28 days up to 3 months	Over 3 months and up to 6 months	Over 6 months and up to 1 year	Over 1 year and upto 3 years	Over 3 years and up to 5 years	Over 5 year s
RSA		28753.43	13792. 92	10214.3 2	30513.54	59714.03	45383.83	81399.87	102281.84	70529.14	2154 18.3 3
RSL		5891.33	31445. 69	36719.4 5	21574.32	56771.86	49826.15	121194.01	303042.42	33901.09	3386 1.83
GA P		22862.1	- 17652. 77	26505.1 3	8939.22	2942.17	-4442.32	-39794.14	-200760.58	36628.05	1815 56.5
Cum GA P		22862-1	- 17652. 77	26505.1	8939 22	2942 17	-4442 32	-39794 14	-200760 58	36628.05	1815
1	L	22002.1	,,	5	0737.22	Central Bank o	of India	57771.11	200700.20	50020.05	50.5
Deta ils	Day 1		2 to 7 days	8 TO 14 DAYS	15 TO 28 DAYS	Over 28 days up to 3 months	Over 3 months and up to 6 months	Over 6 months and up to 1 year	Over 1 year and upto 3 years	Over 3 years and up to 5 years	Over 5 year s
5.01			2024.4	1 100 55	11010.05	11700.04		1 50 17 0 1	00.001.07	0.0100.15	1277 17.0
RSA		2889.87	3821.1	1480.75	11812.87	11732.36	20402.79	16347.84	88661.05	26192.15	5 5018
GA B		078.41	612.2	- 1221.72	540.0	20499.09	20038.43	2/145.18	52512.05	30306.04	0.03 7753 7.02
Cum GA		978.41	-015.2	1551.72	349.9	-8/00./5	504.30	-10797.34	-32312.03	-30300.04	- 2489
Р		978.41	365.21	-966.51	-416.61	-9183.34	-8818.98	-19616.32	-72128.37	-102434.41	7.39
						Puniab Nation	al Bank				
Deta ils	Day 1		2 to 7 days	8 TO 14 DAYS	15 TO 28 DAYS	Over 28 days up to 3 months	Over 3 months and up to 6 months	Over 6 months and up to 1 year	Over 1 year and upto 3 years	Over 3 years and up to 5 years	Over 5 year s
DCA		5072.01	8208.3	5221.05	17721 12	51512 79	20070.25	50101.05	220100.50	(1255.0	2933 60.1
кзА		3213.21	192/13	18484 1	1//51.12	51512.78	308/8.33	50191.95	229109.58	01000.8	2180 36.6
RSL		14960.8	09	1	16654.62	51318.76	50517.04	71085.97	147622.47	183518.92	6
GA P		-9687.59	11034. 78	13152.8 6	1076.5	194.02	-19638.69	-20894.02	81487.11	-122163.12	7532 3.49
GA P		-9687.59	20722. 37	33875.2 3	-32798.73	-32604.71	-52243.4	-73137.42	8349.69	-113813.43	3848 9.94
						State Bank of	India			Over 3	Over
Deta ils	Day 1		2 to 7 days	8 TO 14 DAYS	15 TO 28 DAYS	Over 28 days up to 3 months	Over 3 months and up to 6 months	Over 6 months and up to 1 year	Over 1 year and upto 3 years	years and up to 5 years	5 year s
RSA		102095.38	23929. 46	28710.5 4	68833.54	189024.4	157293.37	230353.93	1377258.17	448338.13	1197 231. 32
RSL		77279.08	11792 3.29	60419.2 8	111279.31	349765.18	412244.68	721834.33	735288.61	420583.62	9249 43.1 4
GA P		24816.3	- 93993. 83	31708.7 4	-42445.77	-160740.78	-254951.31	-491480.4	641969.56	27754.51	2722 88.1 8
GA P		24816.3	- 69177. 53	- 100886. 27	- 143332.04	-304072.82	-559024.13	-1050504.53	-408534.97	-380780.46	- 1084

										92.2 8
						2020-21				
					Ba	nk of Baroda				Over
Details	Day 1	2 to 7 days	8 TO 14 DAYS	15 TO 28 DAYS	Over 28 days up to 3 months	Over 3 months and up to 6 months	Over 6 months and up to 1 year	Over 1 year and upto 3 years	Over 3 years and up to 5 years	5 year s
Advances	1117 4.8	10419 .14	22931.8 1	8677.99	25090.53	26138.11	38915.98	367477.27	81893.58	1135 81.3
Investments	4184 2.37	2289. 55	725.11	1470.43	4520.8	3761.25	9471.84	45818.38	72135.2	7918 5.34
Foreign currency assets	5272 6.84	3845. 68	6881.99	7433.54	23027.33	17336.49	12851.16	44537.36	16194.68	1243 4.25
Foreign currency liabilities	8355. 37	9576. 34	3880.85	12562.0 6	12934.89	14563.72	18295.4	34935.19	10357.87	1421 5.13
Deposits	1585 2.79	33566 .64 28357	23196.5 9	32853	74413.06	64940.25	114939.65	270930.51	57978.02	2785 26.4 1
Borrowings	55.98	.46	53.93	0	413.63	420.85	5945.37	16418.77	12248.23	2933 .7
RSA	1057 44.01	16554 .37	30538.9 1	17581.9 6	52638.66	47235.85	61238.98	457833.01	170223.46	2052 00.8 9
RSL	2426 4.14	71500 .44	27131.3 7	45415.0 6	87761.58	79924.82	139180.42	322284.47	80584.12	75.2 4
GAP	8147 9.87	- 54946 .07	3407.54	27833.1	-35122.92	-32688.97	-77941.44	135548.54	89639.34	9027 4.35
Cum GAP	8147 9.87	26533 .8	29941.3 4	2108.24	-33014.68	-65703.65	-143645.09	-8096.55	81542.79	- 8731 .56
					B	ank of India				
Details	Day 1	2 to 7 days	8 TO 14 DAYS	15 TO 28 DAYS	Over 28 days up to 3 months	Over 3 months and up to 6 months	Over 6 months and up to 1 year	Over 1 year and upto 3 years	Over 3 years and up to 5 years	Over 5 year s
RSA	2107	19029 29	8912.37	15137.8	30126.27	29252 99	33577 46	199170 36	60708 58	2232 88.6 4
PSI	2304	58555	1919/ 2	29460.8	78088 74	45895.49	27420.23	170026.04	108810.8	2151 23.4
GAP	- 1975. 9	- 39526 .08	9271.83	14323.0	-48862.47	-16642.5	6157.23	28244.32	-48102.22	8165 .2
Cum GAP	- 1975. 9	- 41501 .98	50773.8 1	65096.8 3	-113959.3	-130601.8	-124444.57	-96200.25	-144302.47	1361 37.2 7
		L	L							
					Bank	of Maharashtra				
Details	Day 1	2 to 7 days	8 TO 14 DAYS	15 TO 28 DAYS	Over 28 days up to 3 months	Over 3 months and up to 6 months	Over 6 months and up to 1 year	Over 1 year and upto 3 years	Over 3 years and up to 5 years	Over 5 year
RSA	1290. 33	4841. 02	1711.44	6242.14	12064	11913.08	16173.29	46993.02	35742.2	5027 1.97
RSL	2322. 57	5122. 68	3309.87	7907.85	19590.35	23982.13	39931.06	28874.87	19270.93	3878 2.68
GAP	1032. 24	- 281.6 6	1598.43	1665.71	-7526.35	-12069.05	-23757.77	18118.15	16471.27	1148 9.29
Cum GAP	- 1032. 24	- 1313. 9	2912.33	- 4578.04	-12104.39	-24173.44	-47931.21	-29813.06	-13341.79	- 1852 .5
					С	anara Bank	Γ	[Over
Details	Day 1	2 to 7 days	8 TO 14 DAYS	15 TO 28 DAYS	Over 28 days up to 3 months	Over 3 months and up to 6 months	Over 6 months and up to 1 year	Over 1 year and upto 3 years	Over 3 years and up to 5 years	5 year s
RSA	3057 7.78	18594 .67	8660.26	94182.1 4	44065.48	47509.96	86451.49	200707.3	128845.94	3495 50.6 1

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			,		,				,	,
	1530	51386	19418.7	90425.0						1265 12.2
RSL	3.36	.57	5	1	73910.05	85022.62	179694.58	392270.48	75445.48	8
	1527	-	-							2230
GAP	4 42	.9	10738.4	3757.13	-29844.57	-37512.66	-93243.09	-191563.18	53400.46	30.3
Grif	1.12	.,	,	5757.15	27011.57	37312.00	<i>y</i> 5215.07	171505.10	55100.10	-
		-	-	-						1002
	1527	17517	28275.9	24518.8						43.5
Cum GAP	4.42	.48	7	4	-54363.41	-91876.07	-185119.16	-376682.34	-323281.88	5
					Centra	al Bank of India				Over
			8 TO	15 TO	Over 28 days	Over 3 months	Over 6 months	Over 1 year		5
		2 to 7	14	28	up to 3	and up to 6	and up to 1	and upto 3	Over 3 years and up	year
Details	Day 1	days	DAYS	DAYS	months	months	year	years	to 5 years	S
DCA	5642	3935.	1200 50	17969.3	10010.16	00704 10	21215 55	04114 42	22210 (2	7249
КЗА	2062	3003	1290.56	13700.2	10919.10	23/34.13	31215.55	94114.42	33312.02	9.5
RSL	35	72	2589.72	13799.2	22034.48	17833.08	41534.58	151552.53	61575.38	3.43
	5436		-							1731
GAP	2.84	31.67	1299.16	4170.05	-11115.32	5901.05	-10319.03	-57438.11	-28262.76	5.87
	5/26	54204	52005.2							-
Cum GAP	2.84	54594	53095.5	57265.4	46150.08	52051.13	41732.1	-15706.01	-43968.77	2003
eum ern	2101	101	U	0720011			11/0211	10700101	10,00111	2>
					Punja	b National Bank				Over
			8 TO	15 TO	Over 28 days	Over 3 months	Over 6 months	Over 1 year		5
		2 to 7	14	28	up to 3	and up to 6	and up to 1	and upto 3	Over 3 years and up	year
Details	Day 1	days	DAYS	DAYS	months	months	year	years	to 5 years	s
		15001								4065
DCA	2783	15394	5250.07	17000.0	72222 15	74242.06	64412 77	202001.0	265254 47	66.9 4
KJA	1.05	.01	5550.07	17990.9	12232.13	74545.00	04412.77	202901.9	203334.47	3413
	2373	39861	24291.2	50513.3						17.8
RSL	3.48	.73	9	6	168581.72	43389.89	40244.81	162092.49	306459.93	2
	1000	-	-	-						6524
GAP	4098.	24466	18941.2	32522.4	-96349 57	30953 17	24167.96	40809.41	-41105.46	6524 9.12
UAI	15	.72	-	-	-70347.57	30733.17	24107.90	40007.41	-41103.40	-
	4098.	20368	39309.9	71832.4						4810
Cum GAP	15	.77	9	5	-168182.02	-137228.85	-113060.89	-72251.48	-113356.94	7.82
	1			1	State	Bank of India				-
			8 TO	15 TO	Over 29 days	Over 3 months	Over 6 months	Over 1 veer		Over 5
		2 to 7	14	28	up to 3	and up to 6	and up to 1	and upto 3	Over 3 years and up	vear
Details	Day 1	days	DAYS	DAYS	months	months	year	years	to 5 years	s
		ž					-	-		1395
DGA	6491	19015	39692.5	59521.3	150440.05	0111011	250510.15	1000 (00.10		112.
RSA	3.75	.4	7	9	158418.99	211496.43	350648.46	1323400.48	623411.82	81
	8078	24387	41554.0							058
RSL	0.11	0.94	1	89372.9	189657.54	231514.85	981662.25	921405.76	471649.06	31
	-	-		-						
	2486	22485	-	29851.5						2390
GAP	6.36	5.54	1861.44	1	-31238.55	-20018.42	-631013.79	401994.72	151762.76	54.5
										1708
	2486	24972	251583.	281434.						93.6
Cum GAP	6.36	1.9	3	85	-312673.4	-332691.82	-963705.61	-561710.89	-409948.13	3
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