FINANCE INDIA
© Indian Institute of Finance
Vol. XXXVI No. 2, June 2022
Pages – 867 - 885

Relationship between Bank-Specific Factors and Non-Performing Assets of Indian Banks during post Global Financial Crisis Era¹

RUCHITA VERMA*
DHANRAJ SHARMA**
SHUBHAM SHARMA***
SHINEY SAM ****

Abstract

The study aims to analyze the relationship betweenBank-specific factors and Non-Performing Assets (NPAs) of the Indian banks. The sample of the study consists of 21 public sector and 19 private sector banks which accounted for 96.42% of banking operation in India and were continuously in existence for the study period of 10 years i.e. from 2009-10 to 2018-19. The study considered NPAs as dependent variable and used bank-specific indicators as independent variables. The study found concentration of NPAs and advances in public sector banks and higher concentration in private sector bank. Further, based on stability based classification, the study found IndusInd bank; Nainital bank and Yes Bank are the highly unstable banks in Indian banking sector. Using panel data regression approach, the result shows that NPAs can be managed efficiently by improving Return on Assets and Credit Deposit Ratio.

JEL Code: C23, G20, G21

Keywords: NPA, Banks, Bank-specific factors, Regression, Stability, Regulation,

Crisis, India

I. Introduction

BANKING SECTOR IS one of the vital pillars of the financial system which play imperative role in the economic growth. There has been increased debate about the credit management and continued deterioration in the asset quality of banks during the post financial crisis era among researchers. The deterioration in asset quality is reflected in rising NPAs which further affect the performance of the banking sector by reducing the profitability

- 1 Presented at IIF International Conference and Summit (29th August, 2020)
- * Assistant Professor, Central University of Punjab, The Department of Financial Administration, Village Ghudda, Bathinda, Punjab 151401, INDIA
- ** Assistant Professor, Central University of Punjab, The Department of Financial Administration, Village Ghudda, Bathinda, Punjab 151401, INDIA
- *** Academic Associate (Finance), Indian Institute of Management (IIM), G.T. Road, Amritsar, Punjab 143105, INDIA
- **** Doctoral (Ph.D.) Research Scholar, Central University of Rajasthan, The Department of Commerce, Bandarsindri, District Ajmer, Rajasthan 305817, INDIA

Submitted August 2020; Accepted March 2022

References

Adebola, S. S., W.S. Wan Yusoff, and J. Dahalan, (2011), "An ARDL approach to the determinants of nonperforming loans in Islamic banking System in Malaysia", Kuwait Chapter of Arabian Journal of Business and Management Review, Vol. 1, No. 1, pp. 20–30

Ashraf, N., and Q.U.A. Butt, (2019),"Macroeconomic and idiosyncratic factors of non-performing loans: Evidence from Pakistan's banking sector", *Journal of Finance and Accounting Research*, Vol. 1, No. 2, pp. 44-71

Bardhan, S., and V. Mukherjee, (2016), "Bank-specific determinants of nonperforming assets of Indian banks", *International Economics and Economic Policy*, Vol. 13, No. 3, pp. 483–498

Bawa, J. K., V. Goyal, S.K. Mitra and S. Basu, (2019), "An analysis of NPAs of Indian banks: Using a comprehensive framework of 31 financial ratios", *IIMB Management Review*, Vol. 31, No. 1, pp. 51–62

Berger, A. N., and R. DeYoung, (1997), "Problem loans and cost efficiency in commercial banks", *Journal of Banking and Finance*, Vol. 21, No. 6, pp. 849–870.

Bittu, S., and A.K. Dwivedi, (2012),"Determinants of credit risk in Indian banking sector: Some panel results", *International Journal of Business Continuity and Risk Management*, Vol. 3, No. 2, pp. 178–185

Chavan, P., and L. Gambacorta, (2016),"Bank lending and loan quality: the case of India", BIS Working Paper, Bank for International Settlement, December 2016, pp. 1–33

Cincinelli, P., and D. Piatti, (2017),"Non Performing Loans, Moral Hazard & Supervisory Authority: The Italian Banking System", Journal of Financial Management, Markets and Institutions, No. 1, pp. 5-34

Dhananjaya K. (2019),"Corporate Distress and Non-performing Assets in India", Global Business Review, pp. 1–17

Dhananjaya, K. (2020),"Corporate Debt Vulnerability and Non-performing Assets in India", Global Business Review.

Dhar, S., and A. Bakshi, (2015),"Determinants of loan losses of Indian banks: A panel study", *Journal of Asia Business Studies*, Vol. 9, No. 1, pp. 17–32

ET, (2020),"From best bank stock for decade to third worst, why IndusInd's troubles refuse to die", *Economic Times Market News* February 26, 2020.

ET, (2018),"Capital Adequacy and Prompt Corrective Actions", Economic Times, December 19, 2018

Espinoza, R., and A. Prasad, (2010),"Nonperforming Loans in the GCC Banking System and their Macroeconomic Effects", *IMF Working Papers*, Vol. 10, No. 224, pp. 1-24

FE, (2020),"RBI caps withdrawals from Yes Bank at Rs 50,000", Financial Express, 5th March, 2020.

Ghosh, A. (2015),"Banking-industry specific and regional economic determinants of non-performing loans: Evidence from US states", *Journal of Financial Stability*, Vol. 20, pp. 93–104

Gujarati, D. (2004)," Basic econometrics" (4th ed.), McGraw-Hill Publications.

884 Finance India

Ha, D. T., H. Thi, and T. Hang, (2016), "Determinants of Non-performing Loans: The Case of Vietnam", *Journal of Business and Economics*, Vol. 7, No. 7, pp. 1125–1136

- Hu, J. L., Y. Li, and Y.H. Chiu, (2004), "Ownership and nonperforming loans: Evidence from Taiwan's banks", *Developing Economies*, Vol. 42, No. 3, pp. 405–420
- IMF, (2020)," Report on Financial Soundness Indicator", International Monetary Fund , Washington D C, USA
- Kadanda, D., and K. Raj, (2018), "Non-performing assets (NPAs) and its determinants: a study of Indian public sector banks", *Journal of Social and Economic Development*, Vol. 20, No. 2, pp. 193–212
- Kjosevski, J., and M. Petkovski, (2017),"Nonperforming loans in Baltic States: Determinants and macroeconomic effects", *Baltic Journal of Economics*, Vol. 17, No. 1, pp. 25–44
- Koju, L., R. Koju and S. Wang, (2018),"Macroeconomic and Bank-Specific Determinants of Non-Performing Loans: Evidence from Nepalese Banking System", Journal of Central Banking Theory and Practice, Vol. 7, No. 3, pp. 111–138
- Kumar, N., A Shrivastava, D.P. Singh and P. Kumar, (2018), "Determinants of Financial Stress of Indian Banks: Hierarchical Bayesian Panel Data Modelling", South Asia Economic Journal, Vol. 19, No. 2, pp. 210–228
- Kuzucu, N., and S. Kuzucu, (2019), "What Drives Non-Performing Loans? Evidence from Emerging and Advanced Economies during Pre- and Post-Global Financial Crisis", Emerging Markets Finance and Trade, Vol. 55, No. 8, pp. 1694–1708
- Lee, J., and P. Rosenkranz, (2019),"Nonperforming Loans in Asia: Determinants and Macrofinancial Linkages", ADB Economics Working Paper, (March), pp. 1-38
- Louzis, D. P., A.T. Vouldis and V.L. Metaxas, (2012), "Macroeconomic and bank-specific determinants of non-performing loans in Greece: A comparative study of mortgage, business and consumer loan portfolios", *Journal of Banking and Finance*, Vol. 36, No. 4, pp. 1012–1027
- Makri, V., A. Tsagkanos and A. Bellas, (2014)," Determinants of non-performing loans: The case of Eurozone", *Panoeconomicus*, Vol. 61, No. 2, pp. 193–206
- Mishra, A. K., S. Jain, M. Abid and M. Rl, (2021), "Macro economic determinants of non performing assets in the Indian banking system: A panel data analysis", *International Journal of Finance & Economics*, Vol. 26, No. 3,pp. 3819-3834
- Misra, B., and S. Dhal, (2014),"Pro-cyclical Management of Banks' Non-Performing Loans by the Indian Public Sector Banks", RBI Occasional Papers, Reserve Bank of India, March 2014, pp. 1–23
- Patra, B. and P. Padhi, (2016),"Determinants of nonperforming assets-bank-specific and macroeconomic factors: A panel data analysis of different group of commercial banks operating in India", *Theoretical and Applied Economics*, Vol. 23, No. 4, pp. 215–236
- Podpiera, J., and L. Weill, (2008),"Bad luck or bad management? Emerging banking market experience", *Journal of Financial Stability*, Vol. 4, No. 2, pp. 135–148
- Prasanna, P. K., M. Thenmozhi and N. Rana, (2014),"Determinants of non-performing advances in Indian banking system", *Banks and Bank Systems*, Vol. 9, No. 2, pp. 65–77

- Radivojevic, N., and J. Jovovic, (2017), "Examining of determinants of non-performing loans", *Prague Economic Papers*, Vol. 26, No. 3, pp. 300–316
- Rahman, M. A., M. Asaduzzaman and M.S. Hossin, (2016), "Impact of Financial Ratios on Non-Performing Loans of Publicly Traded Commercial Banks in Bangladesh", International Journal of Financial Research, Vol. 8, No. 1, pp. 181-188
- Ramesh, K. (2019),"Bad Loans of Public Sector Banks in India: A Panel Data Study", *Emerging Economy Studies*, Vol. 5, No. 1, pp. 22–30
- Ranjan, R., and S.C. Dhal, (2003),"Non-Performing Loans and Terms of Credit of Public Sector Banks in India: An Empirical Assessment", Reserve Bank of India Occasional Papers, Vol. 24, No. 3, pp. 81–121
- RBI, (2017)," RBI identifies Accounts for Reference by Banks under the Insolvency and Bankruptcy Code (IBC)", Reserve Bank of India, Mumbai, India
- RBI, (2020)," Report on Trend and Progress of Banking in India 2019-20", Reserve Bank of India, Mumbai, India
- RBI, (2020)," Yes Bank Ltd. placed under Moratorium", Press Release, Reserve Bank of India, Mumbai, India
- Roy, S. G. (2014),"Determinants of Non-Performing Assets in India Panel Regression", Eurasian Journal of Economics and Finance, Vol. 2, No. 3, pp. 69-78
- Sethi, A. S., and A. Bajaj, (2018), "Non-Performing Assets (NPAs) of Scheduled Commercial Banks (SCBs) in India: Analytical Revelations", Finance India, Vol. XXXII, No. 3, pp. 785–804
- Sharma, M. (2005),"Problem of NPAs and its impact on strategic banking variables", Finance India, Vol. XIX, No. 3, pp. 953-967
- Sinha R. and Mann G. (2019)," Context to the Supreme Court Order on stressed assets of banks", PRS Legislative Research, 3rd April. 2019.
- Swain, R. K., and C.P. Das, (2018),"Non-Performing Assets and Its Impact on Financial Performance: A Study on Banking Sector In India", *The Indian Journal of Commerce*, Vol. 71, No. 3 and 4, pp. 166–176
- Swamy, D. V. (2012),"Impact of Macroeconomic and Endogenous Factors on NonPerforming Bank Assets", International Journal of Banking and Finance, pp. 1-22

886 Finance India

IIF Faculty Publications			
Library Editions:		No. of Pages	Price Rs. US\$
1.	Literature in Finance-I : Corporate Finance	pp 198	280 43
2.	J.D. AGARWAL & AMAN AGARWAL Literature in Finance-II: Accounting	pp 118	200 35
3.	J.D. AGARWAL & AMAN AGARWAL Literature in Finance-III: Fin. Sys. & Mkts	pp 230	310 46
4.	J.D. AGARWAL & AMAN AGARWAL Literature in Finance-IV: Specialised Finance	pp 218	410 56
5.	J.D. AGARWAL & AMAN AGARWAL Literature in Finance-V: Management	pp 154	310 46
6.	J.D. AGARWAL & AMAN AGARWAL Literature in Finance-VI: Economics	pp 178	270 42
7.	J.D. AGARWAL & AMAN AGARWAL Capital Budgeting Decision Under Risk & Uncertainty	pp 168	280 43
8.	J.D. AGARWAL Working Capital Management	pp 303	350 50
9.	J.D. AGARWAL Readings in Financial Management	pp 497	350 50
10.	J.D. AGARWAL Accounting for Financial Analysis		280 43
10. 11.	J.D. Agarwal	pp 435	180 33
11. 12.	Intérnational Finance Manju Agarwal. Economics for Decision Making	pp 264	180 33
	Maniu Agarwal	pp 317	
13.	Tax Incentives & Investment Behaviour Manju Agarwal	pp 179	175 32
14.	Organisation Behaviour J.D. Agarwal	pp 227	150 30
15.	Quant. Tech. Financial Analysis I J.D. Agarwal & Sagarika Ghosh	pp 281	290 44
16.	Quánt. Tech. Financial Analysis II J.D. AGARWAL & SAGARIKA GHOSH Capital Structure Decisions under Multiple Objectives	pp 292	290 44
17.	YAMINI AGARWAL	pp 223	950 80
18.	Finance India Quarterly Journal of Finance	pp 1200 (4	4000 300 Issues)
Students Editions: (Subsidised)			
1.	Literature in Finance-I : Corporate Finance	pp 198	200 35
2.	J.D. AGARWAL & AMAN AGARWAL Literature in Finance-II: Accounting	pp 118	120 27
3.	J.D. AGARWAL & AMAN AGARWAL Literature in Finance-III: Fin. Sys. & Mkts	pp 230	230 38
4.	J.D. Agarwal & Aman Agarwal Literature in Finance-IV : Specialised Finance	pp 218	330 48
5.	J.D. AGARWAL & AMAN AGARWAL Literature in Finance-V : Management	pp 154	230 38
6.	Literature in Finance-VI : Economics	pp 178	270 42
7.	J.D. AGARWAL & AMAN AGARWAL Capital Budgeting Decision Under Risk & Uncertainty	pp 168	190 34
8.	J.D. AGARWAL Working Capital Management	pp 303	280 43
9.	J.D. ÅGARWAL Readings in Financial Management	pp 497	220 37
10.	J.D. AGARWAL Accounting for Financial Analysis	pp 435	180 33
11.	J.D. AGARWAL Organisation Behaviour	pp 227	150 30
12.	J.D. AGARWAL International Finance	pp 264	120 27
13.	Maniu Agarwal	pp 423	450 45
14.	Security Analysis J.D. Agarwal Economics for Decision Making	pp 317	100 25
15.	Manju Agarwal Quant. Tech. Financial Analysis I	pp 281	290 44
16.	J.D. Agarwal & Sagarika Ghosh Quant. Tech. Financial Analysis II J.D. Agarwal & Sagarika Ghosh	pp 292	290 44
Please send INDIAN INSTITUTE OF FINANCE			
your order to: 45A, Knowledge Park III, Greater Noida - 201310, UP			