

**"PORTFOLIO ANALYSIS OF COMMERCIAL
BANKS"**



**SUBMITTED BY:
Khushboo Dev
Post Graduate Campus Biratnagar
TU. Regd. No. : 7-1-3-550-2003
Exam Roll No: 40089
Campus Roll No: 309**



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Ref No.

Tel No: 021-471327
021-471204

RECOMMENDATION

This is to certify that the Thesis

Submitted by:
Khushboo Dev

Entitled:

**"PORTFOLIO ANALYSIS OF
COMMERCIAL BANKS"**
**(With Reference of BOK, EBL, NABIL, HBL &
NIBL)**

***Has been prepared as approved by this Department in the
prescribed format of Faculty of Management. This thesis is
forwarded for examination.***

Mr. Ballav Poudel
(Campus Chief)

Prof. Dr. Khagendra Acharya
(Head of Department/Supervisor)

Date:



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VIVA-VOCE SHEET

We have conducted the viva –voce Examination of the thesis
presented

By

Khushboo Dev

Entitled:

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*And found the thesis to be the original work of the student and written
According to the prescribed format. We recommend the thesis to be
accepted as partial fulfillment of the requirement for the
Master Degree in Business Studies (M.B.S.)*

Viva-Voce Committee

(Prof. Dr. Khagendra Acharya)
(Head of Department/Supervisor)

.....

Member (External Expert)

.....

Date:.....

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Date.....

.....
Khushboo Dev
Post Graduate Campus
Biratnagar.

Bibliography

- Basnet. Jagdish (2002). ***Portfolio Management of Joint Venture Banks in Nepal***. A Masters Degree Thesis submitted to the office of the Dean, T.U.. Kirtipur. Kathmandu
- Bhatta, Dipesh (2003), ***Portfolio Management of Listed Finance Companies in Nepal***. A Masters Degree Thesis submitted to the office of the Dean, T.U., Kirtipur. Kathmandu
- BOK. Annual Report, Kathmandu, FY 2005/06 to 2010/11
- Cohen. Jeorce B.. Edward D. Zinbarg & Arthur Zeikel (1977), ***Investment Analysis and Portfolio Management***, Third edition, Richard D. Erwin Inc.. Homewood Illinois, USA
- EBL. Annual Report Kathmandu, FY 2005/06 to 2010/11
- Francis. Jack Clark (2003), "***Investment. Analysis and Management***" McGraw Hill. Eleventh Enlarged Edition, New York
- Frank and Reilly (1972), ***Investment***, The Dryden Press, CSB Publishing, Japan
- Gupta. S.C. (2000). ***Fundamentals of Statistics***, Himalayan Publishing Home, Kathmandu.
- NABIL. Annual Report. Kathmandu, FY 2005/06 to 2010/11
- HBL. Annual Report. Kathmandu, FY 2005/06 to 2010/11
- NIBL, Annual Report ", Kathmandu, FY 2005/06 to 2010/11
- NRB, Commercial Bank Act, Kathmandu.
- NRB, Economic Repot, Kathmandu
- NRB, Economic Survey, Kathmandu
- Poudel, Kishor (2002), ***Liquidity and Investment Position of Joint Venture Commercial Banks*** in- Nepal, A Masters Degree Thesis submitte^d to the office of the Dean, T.U., Kirtipur, Kathmandu
- Poudel, Parsuram Prasad (2005), A ***Comparative Study on Investment Behavior Adopted by Nabil Bank Limited and Himalayan Bank Limited***. A Masters Degree Thesis submitted to the office of the Dean, T.U., Kirtipur, Kathmandu
- Pradhan. Surendra (1992), ***Basics of Financial Management***, Educational Enterprise (P.) Ltd, Kathmandu
- Shahi, Prem Bahadur (1999), ***Investment Policy of Commercial Banks in Nepal***, A Masters Degree Thesis submitted to the office of the

- Dean. T.U., Kirtipur, Kathmandu
- Sharma, P.K. & Chaudhary A.K. (2002). **Statistical Methods** for NIBS, PIBA and MPA, Khanal Books Prakashan, Kathmandu,
- Sharpe. William F. Gordon, J. Alexander and Jeffery V. Bailey (2001), **Investments**. Prentice Hall of India. New Delhi
- Shrestha. Prakash (2003), **Portfolio Analysis on Investment of Nepalese Commercial Banks**, A Masters Degree Thesis submitted to the office of the Dean, T.U., Kirtipur, Kathmandu
- Shrestha, Ramesh Lal (1988) , A **Study on Deposits and Credits of Commercial Banks in Nepal**, Nepal Rastra Bank Samachar, NRB, Kathmandu
- Shrestha, Sunity (1995), **Portfolio Behavior of Commercial Banks in Nepal**, Mandala Book Point (Based on her Ph. D. thesis Investment Planning of Commercial Banks in Nepal-1993), Kathmandu
- Thapa, Chandra, (2003), **Managing Banking Risks**, The Kathmandu Post, Kathmandu, March 9, 2003
- Timilsina, Yogendra, (2002), **Managing Investment Portfolio**, The Rising Nepal, Kathmandu, October 4, 2002
- Van Horne. 'J.C. (2001), **Financial Management and Policy**, 10th edition. Prentice Hall of India Pvt. Ltd., New Delhi
- Wolff, H. K. and P.R. Pant (1975). **Social Science Research and Thesis Writing**. Buddha Academic Enterprises Pvt. Ltd., Kathmandu

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DECLARATION

I hereby declare that the work reported in this thesis entitled to "Portfolio Analysis of Commercial Banks". submitted to office of Dean, Faculty of Management, Tribhuvan University, is my original work done in the form of partial fulfillment of the requirements for the degree of Masters of Business Studies (MBS) under the guidance and supervision of Thesis Supervisor Dr. Khagendra Acharya of Post Graduate Campus, Biratnagar Tribhuvan University.

Khushboo Dev
(Researcher)
Post Graduate Campus

Date-.....

ABBREVIATIONS

BOK	Bank of Kathmandu Limited
B.S.	Bikram Sambat
CBs	Commercial Bank
CCR	Cash Reserve Ratio
Cov.	Covariance
C.V.	Coefficient of Variation
EBL	Everest Bank Limited
F/Y	Fiscal Year
Govt.	Government
HBL	Himalayan Bank Limited
i.e.	That is
Ltd.	Limited
MBS	Masters of Business Studies
NABIL	Nabil Bank Limited
NEPSE	Nepal Stock Exchange
NIBL	Nepal Investment Bank Limited
NPAT	Net Profit After Tax
N R B	Nepal Rastra Bank
RWA	Risk-weighted Asset
S.D	Standard Deviation
SEBO	Security Exchange Board
T.U	Tribhuvan University
TOI	Total Outside Investment

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