# STOCK MARKET EFFICIENCY AND STOCK PRICE BEHAVIOUR

A Thesis Submitted By:

Kedar Acharya

Saraswati Multiple Campus

T.U. Regd. No.: 7-2-2-1216-2002,

Campus Roll No.: 80/063

Submitted To:
Office of the Dean
Faculty of Management
Tribhuwan University
Kathmandu, Nepal.

In Partial Fulfillment of the Requirement for the Degree of Master of Business Studies. (M.B.S.)

# RECOMMENDATION

This is to certify that the thesis

#### **Submitted by:**

# **Kedar Acharya**

Entitled:

#### "STOCK MARKET EFFICIENCY AND STOCK PRICE BEHAVIOUR"

Has been prepared as approved by Research Department in the prescribed format of the
Faculty of Management, Tribhuwan University. This thesis is forwarded for examination
Rajan Pratap Singh (Basnet)
Thesis Supervisor
Saraswati Multiple Campus

Date: .....

# **VIVA – VOCE SHEET**

We have conducted the viva-voce examination of the thesis prepared

### **Kedar Acharya**

Entitled:

#### "STOCK MARKET EFFICIENCY AND STOCK PRICE BEHAVIOUR"

(A Case Study of Listed Commercial Banks in Nepal)

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 Degree of Masters of Business Studies (M.B.S.)

## **Viva-Voce Committee**

<b>Head of Research Department</b>	:	
External Expert	:	
Member	:	••••••
Member	:	••••••
Member	:	•••••

**DECLARATION** 

I here by declare that the work reported in this thesis entitled "STOCK MARKET

EFFICIENCY AND STOCK PRICE BEHAVIOUR" Submitted to Saraswati Multiple

Campus, Faculty of Management, Tribhuwan University, is my original work done in the

form of partial fulfillment of the requirement for the Master's Degree of Business Studies

(M.B.S.) under the supervision Associate Prof. Rajan Pratap Singh (Basnet) & Research

Department Head Mr. Bijaya Prakash Shrestha of Saraswati Multiple Campus.

.....

**Kedar Acharya** 

Researcher

T.U. Registration No. 7-2-2-1216-2002,

Campus Roll No. 80/063

4

**ACKNOWLEDGEMENT** 

This research tries best to find the STOCK MARKET EFFICIENCY AND STOCK PRICE

BEHAVIOUR. It helps in valid decision making regarding the stock market of Nepal. This

research study has taken place on this matter under partial fulfillment of the requirement of

MBS Program of T.U.

I would like to express my silence gratitude to my respected thesis supervisor Mr. Rajan

Pratap Singh (Basnet), T.U. for his proper guidance and valuable suggestions. Again I am

very grateful and thank to Mr. Bijaya Prakash Shrestha, Head of Research Department,

Sarswati Multiple Campus, T.U. for instructing and encouraging me to prepare this thesis in

this form.

I am grateful to Mr. Bhairav Pokhrel and other concerned staffs of Saraswati Multiple

Campus for their help, support, with friendly behaviours in providing me the necessary data

as required.

Last but not the least, I would like to thank My Friends, my father, mother, sisters and

brothers who helped & inspired in my study. Once again I would like to express my heartfelt

thanks to everyone who help me directly and indirectly in this thesis work..

Date: July 7, 2010

**Kedar Acharya** 

Researcher

5

# **TABLE OF CONTENTS**

litte	Page
Recommendation	1
Viva-Voce Sheet	II
Declaration	III
Acknowledgement	IV
Table of Contents	V
List of Tables	IX
List of Figures	X
List of Abbreviations	XI
CHAPTER I	
INTRODUCTION	1-14
1.1 Background of the study	1
1.1.1 Securities Market	3
1.1.2 Development of Securities Market in Nepal	5
1.1.3 A Glimpse of Nepal Stock Exchange	7
1.2 Focus of the study	9
1.3 Statement of the problem	10
1.4 Objectives of the study	11
1.5 Significance / Importance of the study	12
1.6 Limitation of the study	13
1.7 Organization of the study	14

# **CHAPTER II**

REVIEW OF LITERATURE	16-48
2.1 Conceptual Framework	16
2.1.1 Financial System and Market	16
2.2 Theories of Stock Price Movement	19
2.2.1 Technical analysis Theory	19
2.2.2 Fundamental Analysis Theory	20
2.2.3 Efficient Market Theories	21
2.2.4 Theory of Weakly Efficient Market or Random Walk Hyp	othesis 24
2.3 Financial Markets in Nepal	27
2.3.1 Money Market in Nepal	29
2.3.2 Capital Market	30
2.3.3 Primary Capital Market	32
2.3.4 Secondary Capital Market	32
2.4 Introduction of NEPSE	33
2.5 Review of Journal and Articles	33
2.6 Review of Thesis	40
2.7 Concluding Remarks (Research Gap)	48
CHAPTER III	
RESEARCH METHODOLOGY	49-57
3.1 Research Design	49
3.2 Population and Sample	49
3.3 Nature and Sources of Data	50
3.4 Sample Commercial Banks	51

3.5 To	pols for Analysis of Data	51
	3.5.1 Market Capitalization Ratio	51
	3.5.2 Indicators of Market Liquidity	52
	3.5.3 Concentration	53
	3.5.4 Trend Analysis	53
	3.5.5 Standard Deviation (SD)	53
	3.5.6 Arithmetic Mean	54
	3.5.7 Correlation Coefficient	54
	3.5.8 Coefficient of Multiple Determinants (R2)	55
	3.5.9 Regression Constant	55
	3.5.10 Regression Coefficient	55
	3.5.11 Regression Analysis	55
	3.5.12 F-statistics	56
	3.5.13 T-statistics	57
	3.5.14 Formulation of Hypothesis	57
СНА	PTER 4	
DATA	A PRESENTATION AND ANALYSIS	58-81
	4.1 Number of Listed Companies	58
	4.2 Comparative Analysis of NEPSE Index and Commercial Bank I	ndex 60
	4.3 Group-Wise Annual Turnover	62
	4.4 Trading Performance of Sample Stocks	64
	4.5 Stock Price Behavior of Sampled Commercial Banks	66
	4.6 Serial Correlation analysis	75
	4.7 Volatility of Daily Stock Prices	79

4.8 Result of Hypothesis Testing	81
4.9 Major Findings of the Study	81
CHAPTER 5	
CHAPTER 3	
SUMMARY, CONCLUSIONS AND RECOMMENDATIONS	83-84
5.1 Summary	83
5.2 Conclusion	85
5.3 Recommendations	87
BIBLIOGRAPHY	88-89
APPENDIX	90-95

# **LIST OF TABLES**

Гable No.	Title	Page No.
4.1	Listing Rate of Companies in NEPSE for Different Fiscal Years	59
4.2	Monthly Closing NEPSE Index and Commercial Banks Index For	
	the Fiscal Year 2008/09	60
4.3	Group-Wise Annual Turnover for the Fiscal Year 2008/09	63
4.4	Distribution of Signs of Coefficients	76
4.5	Series Having Significant Values of First to Tenth Order	
	Serial Correlation Coefficients	78
4.6	Computation of Stock Volatility Based on Daily Prices	80

# **LIST OF FIGURES**

Figure No.	Title	Page No.
4.1	Graphical representation of Listing of Companies in NEPSE	
	for Different Fiscal years	59
4.2	Co-movement between Indices of Commercial Bank and NEPSE	61
4.3	Group-wise Annual Turnover for the Fiscal Year 2008/09	64
4.4	Trading Performance of Sample Stock for the Fiscal Year 2008/09	65
4.5	Average Monthly Behavior of HBL	66
4.6	Average Monthly Behavior of Nepal SBI Bank	67
4.7	Average Monthly Behavior of BOK	68
4.8	Average Monthly Behavior of NIC Bank	69
4.9	Average Monthly Behavior of Laxmi Bank	70
4.10	Average Monthly Behavior of Kumari Bank	71
4.11	Average Monthly Behavior of Lumbini Bank	72
4.12	Average Monthly Behavior of Nabil Bank	73
4.13	Average Monthly Behavior of NIB	74

#### LIST OF ABBREVIATIONS

BOK : Bank of Kathmandu Limited HBL : Himalayan Bank Limited NEPSE : Nepal Stock Exchange

NICB : Nepal Industrial and Commercial Bank Limited NIDC : Nepal Industrial Development Corporation

NRB : Nepal Rastra Bank

SBI : Nepal State Bank of India Limited

NABIL : Nabil Bank Limited AGM : Annual General Meeting

BOD : Board of Directors

BV : Book Value e.g. : For example Ed. : Edition ed. cit. : Edition cited

EMH : Efficient Market Hypothesis

F/Y : Fiscal Year

HMG : His Majesty of Government HPY : Holding Period Yield ibid : 'ibidem;, In the same place

Inc : Incorporation Ltd. : Limited

MPS : Market Price Per Share

MV : Market Value No. : Number

op. cit. : 'operacitato', In the work cited

P.Page NumberP/EPrice Earning RatioPp.Page Numbers

Pvt. : Private

RWH : Randim Walk Hypothesis

S.No. : Serial Number

SEBON : Securities Board of Nepal SEC : Securities Exchange Center

SPSS : Statistical Program for Social Science

T.U. : Tribhuvan University