

**AN ANALYSIS OF STOCK PRICE VOLATILITY  
IN NEPALESE STOCK MARKET**

**By:**

**JOG LAL BHUSAL**

**Shanker Dev Campus**

**Campus Roll No.: 1839/063**

**T.U. Regd. No: 7-2-302-67-2003**

**Second Year Symbol No.:- 2840**

**A Thesis Submitted to:**

**Office of the Dean**

**Faculty of Management**

**Tribhuvan University**

*In partial fulfillment of the requirement for the Degree of  
Master of Business Studies (MBS)*

**Kathmandu, Nepal**

**April, 2010**

## **RECOMMENDATION**

This is to certify that the Thesis

Submitted by:

**JOG LAL BHUSAL**

Entitled:

**AN ANALYSIS OF STOCK PRICE VOLATILITY  
IN NEPALESE STOCK MARKET**

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

.....  
**Prof. Dr. Kamal Das Manandhar**  
(Thesis Supervisor)

.....  
**Prof. Bisheshwor Man Shrestha**  
(Head of Research Department)

.....  
**Prof. Dr. Kamal Deep Dhakal**  
(Campus Chief)

.....  
**Kiran Thapa**  
(Thesis Supervisor)

## **VIVA- VOCE SHEET**

We have conducted the viva –voce of the thesis presented

by

**JOG LAL BHUSAL**

**Entitled:**

**AN ANALYSIS OF STOCK PRICE VOLATILITY  
IN NEPALESE STOCK MARKET**

*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*

**Master Degree of Business Studies (MBS)**

**Viva-Voce Committee**

Head, Research Department .....

Member (Thesis Supervisor) .....

Member (Thesis Supervisor) .....

Member (External Expert) .....

# **TRIBHUVAN UNIVERSITY**

**Faculty of Management**

**Shanker Dev Campus**

## **DECLARATION**

I hereby declare that the work reported in this thesis entitled “**An Analysis of Stock Price Volatility in Nepalese Stock Market**” submitted to Office of the Dean, Faculty of Management, Tribhuvan University, is my original work done in the form of partial fulfillment of the requirement for the Master Degree in Business Studies (MBS) under the supervision of **Prof. Dr. Kamal Das Manandhar** and **Kiran Thapa** of Shanker Dev Campus.

.....  
**Researcher**

**Jog Lal Bhusal**

**Shanker Dev Campus**

**T.U. Regd. No: 7-2-302-67-2003**

**Campus Roll No: 1839/063**

**Second Year Symbol No.: 2840**

## **ACKNOWLEDGEMENT**

I express my profound gratitude to my supervisors, Prof. Dr. Kamal Das Manandhar and Kiran Thapa of Shanker Dev Campus for their patient and continuous guidance with valuable comments and kind support to me all the way of this Thesis preparation. Especially, I would like to pay my sincere thanks to my parents and friends for their excellent assistance and good council ever since to whom was generous, pain staking and inspiring in their suggestions and comments at an early stage.

I am indebted to authors whose writings have valuable materials for the enrichment of my research paper in all possible ways. I wish to express my sincere gratitude to all the individuals and institutions that generously provided required information to me. I cannot stand without thanking to staffs and investors of Nepal Stock Exchange and to the Library of Nepal Security Board (SEBO) for helping me to find the relevant data.

Last but not least, I express my deep sense of gratitude to my mates for their untiring efforts and unfailing courtesy in preparing out the Thesis in time.

**Jog Lal Bhusal**

# TABLE OF CONTENTS

Recommendation	
Viva-Voce Sheet	
Declaration	
Acknowledgement	
Table of Contents	
List of Tables	
List of Figures/Charts	
Abbreviations	
	<b>Page No.</b>
<b>CHAPTER – I: INTRODUCTION</b>	
1.1 Background of the Study	1
1.2 Financial Market in Nepal	3
1.2.1 Classification of Financial Market	4
1.3 Constitution of Capital Market in Nepal	8
1.4 Focus of the study	15
1.5 Statement of Problem	15
1.6 Objective of the study	17
1.7 Significance of the study	17
1.8 Limitation of the study	18
1.9 Organization of the study	18
<b>CHAPTER- II: REVIEW OF LITERATURE</b>	
2.1 Conceptual Review	20
2.2 Thesis Review	38
2.3 Review of Articles, Books and Websites	42
2.4 Research Gap	42
<b>CHAPTER –III: RESEARCH METHODOLOGY</b>	
3.1 Introduction	44

3.2 Research Design	44
3.3 Population and Samples	44
3.4 Data gathering Procedure	45
3.5 Data Analysis/Processing Procedure	46
3.6 Research Variable	50

## **CHAPTER- IV: DATA PRESENTATION AND ANALYSIS**

4.1 Introduction	51
4.2 Relation between MPS & EPS, DPS and NWPS	52
4.3 Analysis of overall behavior of NEPSE index	62
4.3.1.1 NEPSE Index Analysis (Monthly Trend Analysis)	63
4.3.2 Monthly Trend Analysis of Sector Wise Index	64
4.4 Signaling Effect/Event Study	75
4.5 Run Test Analysis	77
4.6 Presentation & Analysis of Primary Data	80
4.6 Major findings of the study	87

## **CHAPTER – V: SUMMARY, CONCLUSION & RECOMMENDATION**

5.1 Summary	90
5.2 Conclusion	91
5.3 Recommendation	92

### **Bibliography**

### **Annexure**

## LIST OF TABLES

	<b>Page No.</b>
1. Board of Director of NEPSE	10
2. Trading Days & hour of NEPSE	11
3. Listing fees of NEPSE	11
4. Mean, Standard Deviation & CV of SCBN	52
5. Relationship of MPS with EPS, DPS and NWPS of SCBN	53
6. Mean, Standard Deviation & CV of ACEDBL	54
7. Relationship of MPS with EPS, DPS and NWPS of ACEDBL	54
8. Mean, Standard Deviation & CV of PFCL	56
9. Relationship of MPS with EPS, DPS and NWPS of PFCL	56
10. Mean, Standard Deviation & CV of HGI	57
11. Relationship of MPS with EPS, DPS and NWPS of HGI	58
12. Mean, Standard Deviation & CV of CHCL	59
13. Relationship of MPS with EPS, DPS and NWPS of CHCL	59
14. Mean, Standard Deviation & CV of UNL	61
15. Relationship of MPS with EPS, DPS and NWPS of UNL	61
16. NEPSE index for six years	62
17. NEPSE Index of different months during 2008/9	63
18. NEPSE Index of Commercial Bank during 2008/9	65
19. NEPSE Index of Manu. & Processing during 2008/9	66
20. NEPSE Index of Hotel Industries during 2008/9	67
21. NEPSE Index of Hydro Power during 2008/9	68
22. NEPSE Index of Trading Sector during 2008/9	69
23. NEPSE Index of Insurance Sector during 2008/9	70
24. NEPSE Index of Finance Sector during 2008/9	71
25. NEPSE Index of Development Bank during 2008/9	72
26. NEPSE Index of Other Sector during 2008/9	73
27. Number of listed and transacting companies in NEPSE	74
28. Result of t-Test	76



29. Influencing Factors of the stock price	81
30. Political Instability Analysis	81
31. International Environment Analysis	82
31. Government's Policy Analysis	82
32. Awareness of Investors Analysis	83
33. Basis of Decision Making Analysis	83
34. Purpose of Investment Analysis	83
35. Sector of Investment Analysis	84

## **LIST OF FIGURES/CHARTS**

	<b>Page No.</b>
1. Classification of Nepalese Money Market	4
2. Classification of Nepalese Capital Market	8
3. Research Methodology in diagram	50
4. Relationship of MPS with EPS, DPS & NWPS of SCBN	53
5. Relationship of MPS with EPS, DPS & NWPS of ACEDBL	55
6. Relationship of MPS with EPS, DPS and NWPS of PFCL	56
7. Relationship of MPS with EPS, DPS and NWPS of HGI	58
8. Relationship of MPS with EPS, DPS and NWPS of CHCL	60
9. Relationship of MPS with EPS, DPS and NWPS of UNL	61
10. NEPSE index for six years	63
11. NEPSE Index of different months during 2008/9	64
12. NEPSE Index of Commercial Bank during 2008/9	65
13. NEPSE Index of Manu. & Processing during 2008/9	66
14. NEPSE Index of Hotel Industries during 2008/9	67
15. NEPSE Index of Hydro Power during 2008/9	68
16. NEPSE Index of Trading Sector during 2008/9	69
17. NEPSE Index of Insurance Sector during 2008/9	70
18. NEPSE Index of Finance Sector during 2008/9	71
19. NEPSE Index of Development Bank during 2008/9	72
20. NEPSE Index of Other Sector during 2008/9	73
21. Number of listed and transacting companies in NEPSE	75

## ABBREVIATIONS

ACEDBL	=	Ace Development Bank Ltd.
AGM	=	Annual General Meeting
BOD	=	Board of Directors
BT	=	Blank Transfer
CHCL	=	Chilime Hydro Power Ltd.
CV	=	Coefficient of Variation
df	=	degree of freedom
DPS	=	Dividend Per Share
EMH	=	Efficient Market Hypothesis
EPS	=	Earnings Per Share
FFCCI	=	Federation of Nepalese Chambers of Commerce and Industries
HGI	=	Himalayan General Insurance Ltd.
ICAN	=	Institute of Chartered Accounts of Nepal
INGO	=	International Non Government Organization
ls	=	level of significance
MPS	=	Market Price of Share
NATS	=	NEPSE Automated Trading System
NEPSE	=	Nepal Stock Exchange
NGO	=	Non Government Organization
NIDC	=	Nepal Industrial Development Corporation
NRB	=	Nepal Rastra Bank
NWPS	=	Net Worth Per Share
NYSE	=	New York Stock Exchange
OTC	=	Over the Counter
PE	=	Probable Error
PFCL	=	People's Finance Ltd.
r	=	Correlation Coefficient
r <sup>2</sup>	=	Coefficient of Determination

SCB	=	Standard Chartered Bank Nepal Ltd.
SD	=	Standard Deviation
SEBO	=	Securities Board of Nepal
SEC	=	Securities Exchange Center
t-Cal	=	Calculated Value of Student's T-Distribution
t-Tab	=	Tabulated Value of Student's T-Distribution
UNL	=	Unilever Nepal Ltd.