# A STUDY ON WORKING CAPITAL MANAGEMENT OF DUGAR BROTHERS AND SONS

#### **A THESIS**

### **Submitted By:**

Bisnu Prasad Ghimire Nepal Commerce Campus Campus Roll No.:-297/062 T. U. Registration No: - 7-1-224-130-98

Exam Roll No: 1948/064

### **Submitted To:**

Office of the Dean Faculty of Management Tribhuvan University

In partial fulfillment of the requirements for the Master Degree of Business Studies (M.B.S.)

New Baneshwor, Kathmandu February, 2009

# RECOMMENDATION

This is to certify that the thesis:

Submitted by

#### **Bisnu Prasad Ghimire**

# Entitled A STUDY ON WORKING CAPITAL MANAGEMENT OF DUGAR BROTHERS AND SONS

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

(Dr. Bihari Binod Pokharel) Thesis Supervisor & Head of	(Dipesh Bhatt Thesis Superviso
Research Department	
	(Diwaker Pokhrel)
	Campus Chief

# **VIVA- VOCE SHEET**

We have conducted the Viva-Voce examination of the thesis

Presented by

#### **Bisnu Prasad Ghimire**

#### Entitled

# A STUDY ON WORKING CAPITAL MANAGEMENT OF DUGAR BROTHERS AND SONS

and found the thesis to be the original of the student and written according to the prescribed format. We recommend the thesis to be accepted as partial fulfillment of the requirements for Master's Degree in Business Studies (M.B.S.)

#### **Viva- Voice Committee**

Head of Research Department: _	
Member (Thesis Supervisor): _	
Member (Thesis Supervisor):	
Member (External Expert):	
Date:	-

#### **DECLARATION**

I here by declare that the work reported in this thesis entitled "A STUDY ON WORKING CAPITAL MANAGEMENT OF DUGAR BROTHERS AND SONS." submitted to Nepal Commerce Campus, faculty of management, Tribhuvan University is my original work for the partial fulfillment of Degree of Master of Business Studies (M.B.S.) under the supervision of **Dr. Bihari Binod Pokharel** and **Dipesh Bhatta**, Nepal Commerce Campus, Minbhwan, New Baneshwor, Kathmandu.

February, 2009

**Bisnu Prasad Ghimire** 

Nepal Commerce Campus Campus Roll No. 297/062

T.U. Registration No: - 7-1-224-130-98

#### **ACKNOWLEDGEMENTS**

First of all, I would like to thank Tribhuvan University for giving chance to prepare the thesis for a partial requirement of M.B.S. program held under this University.

I express my profound gratitude to my supervisors **Dr. Bihari Binod Phokharel** and **Dipesh Bhatta**, for their patient and continuous guidance with valuable comments and kind support to me all way through this thesis.

I also owe an indebtedness to all reputed authors whose writings have provide me the necessary guidance and invaluable materials for the enrichment of my research paper in all possible ways. I would like to express my genuine appreciation to all the staff of Nepal Commerce Campus and Central library of TU that provide me necessary information and data. And also express my gratitude to the staff of various corporate bodies who bigheartedly made accessible the requisites information.

At last but not least, my paramount dedication is to my family members who have been uninterrupted source of sustain for me while in during the tribulation of this research work. Thanks to my friends Mr. Jeevan Koirala, Mr. Bhabani Prasad Dahal, Mr. Jagadish Pyakurel, Mr. Raman Niraula and brothers Mr. Saroj Ghimire and Mr. Bipan Koirala.

I have tried to cover all the possible are that I felt, important to sum up the "A Study on Working Capital Management of Dugar Brothers and Sons" task will be helpful to the students of business studies and to those who want to make further researches under this topic.

# TABLE OF CONTENTS

CHAPTER TITI	PAGE NO.	
	Viva-Voce Sheet Recommendation Declaration Acknowledgements Table of Contents List of Tables List of Figures Abbreviations	
CHAPTER I	INTRODUCTION	1-12
1.1 1.2 1.3 1.4 1.5 1.6 1.7	Background of the study Introduction to Working Capital Management Introduction to Dugar Brothers and Sons Statement of the Problem Objective of the Study Significance of the Study Limitation of the Study Organization of the Study	1 2 3 8 10 10 11
CHAPTER II	REVIEW OF LITERATURE	13-37
2.1 2.2 2.3	Introduction Conceptual Framework  2.2.1 Concept of Working Capital 2.2.2 Need for Working Capital 2.2.3 Types of Working Capital 2.2.4 Determinants of Working Capital 2.2.5 Working Capital Policy 2.2.6 Goals of Working Capital Management 2.2.7 Adequacy of working Capital Literature Review 2.3.1 Review of Articles / Journals 2.3.2 Review of Thesis Research Gap	13 13 15 17 18 19 21 25 26 27 27 31 36
CHAPTER III  3.1  3.2  3.3	RESEARCH METHODOLOGY Research Design Nature and Sources of Data Data Processing Procedure	38-51 38 39 39

3.4	Tools and	Techniques of Analysis	39
CHAPTER IV	PRESENT	PRESENTATION AND ANALYSIS OF DATA	
4.1	Introductio	on	52
4.2	Composition	on of Working Capital	52
	4.2.1	Position of Current Assets	52
	4.2.2	Position of Current Liabilities	54
	4.2.3	Proportion of Current Assets to	
		Total Assets	56
	4.2.4	Current Assets to Net Fixed Assets	57
	4.2.5	Cash and Bank Balance to	
		Current Assets	58
	4.2.6	Cash and Bank Balance to Total Assets	59
	4.2.7	Inventory to Current Assets Ratio	60
4.3	Liquidity F		61
	4.3.1		61
	4.3.2		62
4.4	Profitabilit	<b>7</b>	63
		Return on Total Assets	63
		Return on Current Assets	64
		Net Profit Margin Ratio	65
		Gross Profit Margin Ratio	66
4.5	Turnover F		67
		Current Assets Turnover Ratio	68
		Inventory Turnover Ratio	68
		Working Capital Turnover Ratio	69
	4.5.4	Cash Turnover Position	70
4.6	Statistical A	<u> </u>	71
	4.6.1	Trend Analysis or time series	
		analysis and calculating Standard error	
		of estimate for regression.	71
	4.6.2	Trend Analysis of Working Capital	72
	4.6.3	Trend Analysis of Net Profit After Tax	74 
	4.6.4	Trend Analysis of Sales	75
	4.6.5	Trend Analysis of Cash and	
4.7		Bank Balance	77 70
4.7		Analysis between the variables	79
	4.7.1	Correlation between the Current Assets	<b>5</b> 0
	4.7.0	and Total Assets	79
	4.7.2	Correlation between Current Assets	00
	472	and Fixed Assets	80
	4.7.3	Correlation between Cash and Bank	00
	4 77 4	Balance and Total Assets	80
	4.7.4	Correlation between Current Assets and	0.0
		Current Liabilities	80

	4.7.5	Correlation between Quick Ratio	
		and Current Liabilities	81
	4.7.6	Correlation between Sales	
		and Inventory	81
	4.7.7	Correlation Between Working	
		Capital and Inventory	82
	4.7.8	Correlation Between Net Profit	
		After Tax and Sales	82
	4.7.9	Correlation Between Net Profit After Tax	
		and Current Assets	82
	4.7.10	Correlation Between Gross Profit and	
		Total Assets	83
	4.7.11	Correlation Between Working Capital	
		and Net Profit After Tax	83
	4.7.12	Correlation Between Working Capital	
		and Cash and Bank Balance	83
	4.7.13	Correlation between Working Capital	
		and Sales	84
4.8	Regression	Analysis	84
	4.8.1	Regression Equation of Net Working	
		Capital and Net Profit After Tax	84
	4.8.2	Regression Equation of Net Working Capital	
		and Cash and Bank Balance	86
4.9	Major Find	lings of the Study	87
	CHIMANAAD	W CONCLUCION AND	
CHAPTER V		RY, CONCLUSION AND	02.00
	RECOMIN	IENDATIONS	93-99
5.1	Summary		93
5.2	Conclusion		94
5.3	Recommendations		98
	BIBLIOG	RAPHY	
	APPENDI	X	

**CURRICULUM VITAE** 

#### LIST OF TABLES

	<u>ble No.</u> e No.	<u>Title</u>
	1 53	Position of Current Assets
	2 55	Position of Current Liabilities
	3 56	Proportion of Current Assets to Total Assets
	4 57	Proportion of Current Assets to Net Fixed Assets
	5	Proportion of Cash and Bank Balance to Current Assets 58
	6 59	Proportion of Cash and Bank Balance to Total Assets
60	7	Proportion of Inventory to Currents Assets
	8 61	Current Ratio
	9 62	Quick Ratio
64	10	Return on Total Assets
65	11	Return on Current Assets
	12 66	Net Profit Margin Ratio
	13 67	Gross Profit Margin Ratio
68	14	Current Assets Turnover Ratio
69	15	Inventory Turnover Ratio
70	16	Working Capital Turnover Ratio

	17	Cash Turnover Position
71		
	18 72	Trend Analyses of Working Capital
74	19	Trend Analysis of Net Profit After Tax
	20 76	Trend Analysis of Sales
77	21	Trend Analysis of Cash and Band Balance
	22	Regression Analysis between Net Working Capital and Net Profit after Tax 85
	23	Regression Analysis between Net Working Capital and Cash and Bank Balance 86

# LIST OF FIGURES

<u>Figure No.</u>	<u>Title</u>	Page No.
1	Types of Working Capital	19
2	Financing Under Aggressive Policy	23
3	Financing Under Conservative Policy	24
4	Financing Under Moderate Policy	25
5	Position of Current Assets	54
6	Position of Current Liabilities	55
7	Trend Analysis of Net Working Capital	73
8	Trend Analysis of Net Profit after Tax	75
9	Trend Analysis of Sales	77
10	Trend Analysis of Cash and Bank Balance	78

#### **ABBREVIATIONS**

CA C&BB CEO CL			
	CR	Current Ratio	
DB&S	Dugar Brothers a		
6	DDC	Diary Development	
7	Corporation FA	Fixed Assets	
FY	Fiscal Ye		
11		Federation of Nepal Chamber of Commerce	
8	GPM	<b>Gross Profit Margin</b>	
9	<b>JCF</b>	Janakpur Cigarette Factory	
T. 1	T		
Ltd	Limited		
NEPSE	Nepal Sto	ock Exchange	
N/G	Government of	f Nepal	
NIDC	Nepal Industria	ial Development Corporation	
10	NLOL	Nepal Lube Oil Limited	
11	NP	Net Profit	
12	NPAT	Net Profit After Tax	
13	NPM	Net Profit Margin	
	NTC	Nepal	
1.4	Telecommunication Cor	<del>-</del>	
<b>14</b> PE	NWC Drobable	Net Working Capital	
PEs	Probable Public Er	nterprises	
Pvt	Private	merprises	
ROA	Return or	n Assets	
RVI		isual Identity	
SEreg		Error of Estimate for Regression	
TA	Total Ass	•	
TBDCRC	Tolaram 1	Bhawani Devi Chikitsalaya and Research	
Center		•	
T.U	Tribhuva	nn University	
Vol	Volume		
WC	Working	•	
WFP	World Fo	ood Program	
WWW			