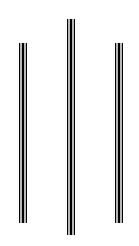
### A STUDY ON WORKING CAPITAL MANAGEMENT OF CHILIME HYDROPOWER COMPANY LIMITED & BUTWAL POWER COMPANY LIMITED



*By*:

SANTOSH POKHREL Post Graduate Campus T.U. Registration No. 39365-95

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)

Biratnagar, Nepal April, 2011



### TRIBHUVAN UNIVERSITY

#### POST GRADUATE CAMPUS

Biratnagar Morang, Nepal

Tel.No: 021-471327 Ref.No.:- 021-471204

# **RECOMMENDATION**

This is to certify that the thesis:

Submitted by: SANTOSH POKHREL

Entitled

# A STUDY ON WORKING CAPITAL MANAGEMENT OF CHILIME HYDROPOWER COMPANY LIMITED & BUTWAL POWER COMPANY LIMITED

has been prepared as approved by this Department in the prescribed

format of Faculty of Management. I	his thesis is forwarded for examination.
(Dr. Shyam Bahadur Katuwal)	(Prof. Dr. Khagendra
Acharya)	
Supervisor Department	Head of the
	(Dr. Hari Har Bhandari)

Campus Chief

# TRIBHUVAN UNIVERSITY POST GRADUATE CAMPUS Biratnagar

Biratnagar Morang, Nepal

Ref.No.:-

# VIVA-VOCE SHEET

Tel.No: 021-471327

021-471204

We have conducted the Viva-Voce Examination of the thesis presented by

#### SANTOSH POKHREL

Entitled

# A STUDY ON WORKING CAPITAL MANAGEMENT OF CHILIME HYDROPOWER COMPANY LIMITED & BUTWAL POWER COMPANY LIMITED

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's Degree in Business Studies (M.B.S.)

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

Chairperson, Research Committee:	
Member (Thesis Supervisor): (Dr. Shyam Bahadur Katuwal)	
Member (External Expert):	
Date:	

**DECLARATION** 

I hereby declare that the work reported in this thesis entitled "A Study on

Working Capital Management of Chilime Hydropower Company

Limited & Butwal Power Company Limited" submitted to Post Graduate

Campus, Faculty of Management, Tribhuvan University, is my original work done

in the form of partial fulfillment of the requirement for the Master's Degree in

Business studies (M.B.S.) under the supervision of Dr. Shyam Bahadur Katuwal,

Associate Professor, Post Graduate Campus, Biratnagar.

Co. A. J. D. H. J.

Santosh Pokhrel

Researcher

T.U. Registration No. 39365-95

### **ACKNOWLEDGEMENTS**

I able to success to present this research paper with Inspirable words by Sheli "As we proceed forward and study deeply, we realize that there was lack of knowledge".

I would like to express my cordial appreciation and sincere gratitude to Dr. Shyam Bahadur Katuwal, Associate Prof., Post Graduate Campus, Biratnagar for his kind guidance and valuable directions to prepare this research work.

Thesis writing work is difficult but it gives more satisfaction and happiness after completion. So, I am gratefully acknowledge to Mr. Tularam Giri, Mr. Tom lal Subedi, Mr. Sher Jang Karki & Mr. Dhurba Dahal of NEA, Mr. Rajiv Ranjan Karna, lecture of KHI Biratnagar, Library staff of Central Library, TU, for their kind suggestion & valuable support.

I also like to give thanks to Newa Photocopy Center, Biratnagar for editing & printing.

Finally, My hearty thanks goes to my mother Bina Pokhrel, respected brother Mr. & Mrs. Nabaraj Chapagain & Prema Chapagain, Uncal Govinda Poudyal for their kindly co-operation and valuable support and all my divine family, as well as my friends who regularly encouraged me to my education.

Santosh Pokhrel Researcher

### LIST OF CONTENTS

**RECOMENDATION** 

**VIVA-VOCE SHEET** 

**DECLARATION** 

ACKNOV	VLEDGEMENT		
TABLE C	OF CONTENTS		
LIST OF	TABLES		
LIST OF	FIGURES		
ABBREV	IATION		
Content		Page	
	CHAPTER – I		
1.	INTRODUCTION		
1.1.	Background of the Study	1	
1.2.	Introduction to Selected Hydropower company	3	
1.3.	Focus of the study	10	
1.4.	Statement of problems	11	
1.5.	Objective of the study	12	
1.6.	Hypothesis	12	
1.7.	Significance of the Study	15	
1.8.	Assumption & limitation of the study	15	
1.9.	Organization of the study	16	
1.10.	Terms used in this study	16	
CHAPTER – II 2. REVIEW OF LITRETURE			
2.1.	Background for working capital management	18	
2.1.	Fundamental concept of working capital management	19	
2.3.	Types of working capital	23	
2.4.	Factors affecting working capital	24	
2.5.	Importance & need of working capital management	25	
2.6.	Working capital policy	26	
2.7.	Working capital cash flow cycle	29	
2.8.	Transaction affecting working capital	30	
2.9.	Transaction not affecting working capital	31	
2.10.	Receivable management	31	
	-		

2.11.	Inventory management	32
2.12.		33
2.13.	Review of related Thesis	35
	CHAPTER – III	
3.	RESEARCH METHODOLOGY	
3.1.	Introduction	40
3.2.	Research Design	41
3.3.	Nature & Source of Data	42
3.4.	The Population & Sample	42
3.5.	Data processing procedures	44
3.6.	Method of analysis	44
	CHAPTER – IV	
4.	PRESENTATION AND ANALYSIS OF DATA	
4.1.	Working capital Structure	53
4.2.	Composition of Working Capital	56
4.3.	Liquidity position	87
4.4.	Profitability position	92
4.5.	Efficiency of Working Capital	100
	CHAPTER –V	
5.	SUMMARY, CONCLUSION & RECOMENDATION	
5.1.	Summary	114
5.2.	Conclusions	116
5.3.	Recommendations	119
BI	BLOGRAPHY	

**ANNEXES** 

## LIST OF TABLES

Table	Name of Table	Page
1	Net profit margin of CHPCL	6
2	Net profit margin of BPC	9
3	Composition of gross working capital of CHPCL	54
4	Composition of gross working capital of BPC	55
5	Ratio of current assets to total assets (CAT) of CHPCL	57
6	Ratio of current assets to total assets (CAT) of BPC	58
6.1	The correlation coefficient of current assets & Total assets, calculated student's t-value & table value	60
7	Ratio of Current assets to fixed assets (CFA) of CHPCL	61
8	Ratio of Current assets to fixed assets (CFA) of BPC	62
8.1	The correlation coefficient of Current assets & Fixed assets, calculated student's t-value & table value	64
9	Ratio of Cash to Current assets (CCA) of CHPCL	65
10	Ratio of Cash to Current assets (CCA) of BPC	66
10.1	The correlation coefficient of cash & bank with current assets, calculated student's t-value & table value	68
11	Ratio of Cash to total assets (CTA) of CHPCL	69
12	Ratio of Cash to total assets (CTA) of BPC	70
12.1	The correlation coefficient of Cash & Bank to Total assets, calculated student's t-value & table value	72
13	Ratio of Receivable to current assets (RCA) of CHPCL	73
14	Ratio of Receivable to current assets (RCA) of BPC	74

14.1	The correlation coefficient of Receivable & current assets, calculated student's t-value & table value	76
15	Ratio of Receivable to total assets (RTA) of CHPCL	77
16	Ratio of Receivable to Total assets (RTA) of BPC	78
16.1	The correlation coefficient of Receivable & Total assets, calculated student's t-value & table value	79
17	Ratio of Inventory to current assets (ICA) of CHPCL	80
18	Ratio of Inventory to Current assets (ICA) of BPC	81
18.1	The correlation coefficient of Inventory & current assets, calculated student's t-value & table value	83
19	Ratio of Inventory to total assets (ITA) of CHPCL	84
20	Ratio of Inventory to total assets (ITA) of BPC	85
20.1	The correlation coefficient of Inventory & Total assets, calculated student's t-value & table value	86
21	Calculation of Current Ratio (CR) of CHPCL	87
22	Calculation of Current Ratio (CR) of BPC	89
23	Calculation of Quick Ratio (CR) of CHPCL	90
24	Calculation of Quick Ratio (CR) of BPC	91
25	Calculation of Return on working capital of CHPCL	93
26	Calculation of Return on working capital of BPC	94
26.1	The correlation coefficient of Gross working capital with Net profit, calculated student's t-value & table value	96
26.2	The correlation coefficient of Gross profit margin & Current ratio, calculated student's t-value & table value	97
26.3	The correlation coefficient of Net profit margin & Current ratio, calculated student's t-value & table value	98

26.4	The correlation coefficient of Net profit to total assets & Quick ratio, calculated student's t-value & table value	99
26.5	The correlation coefficient of Return on shareholder's equity & Quick ratio, calculated student's t-value & table value	100
27	Calculation Inventory Turnover ratio (ITR) of CHPCL	101
28	Calculation Inventory Turnover ratio (ITR) of BPC	102
29	Calculation of Debtors (Receivable) Turnover ratio (DTR) of CHPCL	104
30	Calculation of Debtors (Receivable) Turnover ratio (DTR) of BPC	106
31	Calculation of Cash Turnover ratio (CTR) of CHPCL	108
32	Calculation of Cash Turnover ratio (CTR) of BPC	109
33	Calculation of Current assets Turnover ratio (CATR) of CHPCL	111
34	Calculation of Current assets Turnover ratio (CATR) of BPC	112

## LIST OF FIGURES

Figure	Name of Figure	Page
1	Trend of EPS & DPS of CHPCL	7
2.	Trend of EPS & DPS of BPC	10
2.1	Gross working capital cycle	21
2.2	Concept of Networking capital	22
2.3	Aggressive Policy	27
2.4	Conservative Policy	28
2.5	Moderate Policy	29
3	Average composition of working capital of CHPCL	55
4	Average composition of working capital of BPC	56
5	Trend of ratio of current assets to total assets of CHPCL	57
6	Trend of ratio of current assets to total assets of BPC	59
7	Trend of ratio of current assets to fixed assets of CHPCL	62
8	Trend of ratio of current assets to fixed assets of BPC	63
9	Trend of ratio of cash to current assets of CHPCL	66
10	Trend of ratio of cash to current assets of BPC	67
11	Trend of ratio of cash to total assets of CHPCL	70
12	Trend of ratio of cash to total assets of BPC	71
13	Trend of ratio of Receivable to current assets of CHPCL	74
14	Trend of ratio of Receivable to current assets of BPC	75
15	Trend of ratio of Receivable to total assets of CHPCL	78
16	Trend of ratio of Receivable to total assets of BPC	79

17	Trend of ratio of Inventory to Current Assets of CHPCL	81
18	Trend of ratio of Inventory to Current Assets of BPC	82
19	Trend of ratio of Inventory to Total Assets of CHPCL	84
20	Trend of ratio of Inventory to Total Assets of BPC	85
21	Trend of Current ratio of CHPCL	88
22	Trend of Current ratio of BPC	89
23	Trend of Quick ratio of CHPCL	91
24	Trend of Quick ratio of BPC	92
25	Trend of return on working capital of CHPCL	94
26	Trend of return on working capital of BPC	95
27	Trend of Inventory turnover ratio of CHPCL	102
28	Trend of Inventory turnover ratio of BPC	103
29	Trend of Debtors turnover ratio of CHPCL	105
30	Trend of Debtors sales outstanding ratio of CHPCL	105
31	Trend of Debtors turnover ratio of BPC	107
32	Trend of Debtors sales outstanding ratio of BPC	107
33	Trend of Cash turnover ratio of CHPCL	109
34	Trend of Cash turnover ratio of BPC	110
35	Trend of Current assets turnover ratio of CHPCL.	111
36	Trend of Current assets turnover ratio of BPC	113

### **ABBREVIATION**

BPC Butwal Power Company Ltd.

BS Bikram Sambat

CA Current Assets

CHPCL Chilime Hydropower Company Limited

CL Current Liabilities

CR Current Ratio

Dev. Development

FY Fiscal Year

GAAP General Accepted Accounting Principles

GOVN Government of Nepal

HP Hydropower

MW Megawatt

QR Quick ratio

WC Working capital

WCM Working Capital Management