

An Analysis on Working Capital and its Impact on Sales and Profitability, with Special Reference to Niva Holdings, Minsk, Belarus

Ms. Sindhu S Shastry¹, Mrs. Charithra C M², Dr Bhavya Vikas³

¹Management Student, ²Assistant Professor, ³Associate Professor BNMIT, Bangalore, Karnataka, India

ABSTRACT

The Paper titled "A Study on Working Capital Management and establishment of its impact on Sales and Profitability" is an effort to analyse the financial statements of Niva Holdings Ltd., Belarus, Minsk. The study is conducted at a Heavy Equipment Manufacturing Industry. "NIVA-Holding" is the leader of Belarusian mining machinery manufacturers. Tools used in the study are Ratio Analysis & Regression to understand the trend of working capital and also establish a relationship by arriving at an equation. Major finding of the study was that the company has been seeing a wavy trend with respect to its ratios. A relationship has been established between Working Capital & Sales and Working Capital & Profits of the business, using Regression.

KEYWORD: Working Capital, Finance, Liquidity, Sales, Profit

INTRODUCTION

Finance deals with the learning of savings. Finance covers the changing aspects of possessions and obligations for a period under conditions of many steps of fears and hazards. Finance explains the science of money administration. Marketing members aims to meet the value resources built on their level of risk, essential value, and their expected percentage of return. Finance can be categorised into public, finance. Financial corporate and personal management describes the effective and operative administration of currency in such a way that achieve the of the objectives of company. It has the specified functions that is directly related with the high-level administration.

Working Capital

Working capital is a term that defines working fluidity of business. It secures fixed assets like firm and resources; working capital is also considered a part of operating capital. Gross working capital equals current assets. If the gap between the current assets and current liabilities is too wide, it is known as a deficit situation. It can be calculated using the following equation: Working Capital = Current Assets – Current Liabilities.

Current assets and current liabilities consists of three accounts namely, receivables, inventory and payables.

Objectives of Working Capital

- Ensuring the organisation has enough cash to meet its immediate obligations
 - Arranging funds to be available at the right point of time and right from the right source.
 - ➢ Forecasting and planning of future requirements.

RESEARCH METHODOLOGY Statement of the Problem:

"Study of Working Capital Management at Niva Holdings Ltd, Minsk, Belarus"

Need for the study:

To analyse the financial health and operational success of Niva Holdings Ltd, Minsk, Belarus.

Objectives:

- > To understand the WC position of the organisation
- To establish a relationship between working capital and sales
- To establish a relationship between working capital and profitability

Scope of the study:

The scope of the study is limited to Niva Holdings, Minsk. Belarus.

Research Methodology

Data Source: Secondary Data

- > Data is collected from articles on Working Capital Management.
- \geq Data is also collected from the employees working in Niva Holding and from their financial statements.

Data Period:

Financial Year 2014-2015, 2015-2016 and 2016-2017.

Data Analysis:

Quantitative research hence, there is negligible use of primary data. Analysis of the data is done using ratios and regression.

Limitations

- > No past data available on study of Working Capital Management in the Republic of Belarus.
- \geq Access to many financial data was restricted.

Literature Review

Fluidity and efficiency of position for the business is not reasonable and desirable to be supported in direction to be able to encounter its responsibilities in time were observed in studies made Madhavi K. (2014) and Joseph (2014) in their papers. Similar observations we made by Durga (2015) that the performance of sales has remained good over the years however, the annual growth rate has seen a downward trend when a relation between working capital and sales and profit was established.

ANALYSIS AND INTERPRETATION > Net working capital

Graph Showing Net working capital



Interpretation

- \blacktriangleright Net working capital measures the business's possible reserve of funds.
- > Niva Holdings has a higher NWC which indicates that the company has a greater potential to meet its current obligations
- Networking Capital Ratio

Graph Showing Net working capital ratio



Interpretation

> A company having a higher NWC ratio has a c greater ability to meet its current obligations.

The Net Working Capital of the Company has C seen a wavy trend in the last 3 financial years. \triangleright

Current Ratio

Graph Showing Current Ratio



Interpretation

- > The above graph depicts that the current ratio of Niva holdings for the last three financial years.
- \blacktriangleright The ideal ratio is 2:1, in all the years except the year 2015 the ratio is more than 2:1 and we can depict that the liquidity position of Niva Holdings is favourable.
- \geq **Quick Ratio**

rend

International Journal of Trend in Scientific Research and Development (IJTSRD) ISSN: 2456-6470



Graph Showing Quick Ratio

Interpretation:

- The Ideal ratio is 1:1 which indicates that the firm is able to quickly meet its obligations.
- From the above graph it can be interpreted that over the year Niva Holdings has done exceptionally well.
- Inventory turnover ratio

Graph Showing Inventory Turnover Ratio



Interpretation:

- From the above graph it can be noted that the firm has been efficient with respect to converting its inventory into sales.
- In the year 2015 and 2016 however it has seen a drastic fall in 2017 which shows no efficiency.
- Debtors Turnover Ratio

Graph Showing Debtors Turnover Ratio



Interpretation

- From the above graph it is noted that debtors have been paying the company on time in the years 2015 and 2016. It has however seen a lag in 2017.
- Creditors Turnover Ratio

Graph 4.7 – Showing Creditors Turnover Ratio



Interpretation

۲

- From the above graph it can be noted that the creditors are been paid on time and the company has a good credit worthiness.
- It can also be interpreted that the company is not making use of given credit facility.
 - Working Capital Turnover Ratio

Graph4.8 – Showing Working Capital Turnover Ratio



Interpretation

- The above graph depicts that the Niva Holdings has maintained a good working capital turnover ratio meaning that it has sufficient funds to run the operations of the business for the year 2015 and 2016.
- ➤ However, its position seems dangerous in 2017.
- Working Capital to Net Worth Ratio

Graph 4.9 – Showing Working Capital to Net worth Ratio



Interpretation

- \succ The relationship with the shareholders seems healthy in the year 2015 and 2016.
- \blacktriangleright In the year 2017 the relationship doesn't seem as smooth.

1. Working Capital & Sales Regression Analysis					
Sl. No	Year	Sales (x)	Working Capital (y)	Product of Sales and Working Capital (x*y)	Square of sales (x ²)
1	2015	281103	161189	45310711467	79018896609
2	2016	203648	128685	26206442880	41472507904
3	2017	11959	174336	2084884224	143017681
Gross Total	3	496710	464210	nal JOU 73602038571	120634422200
Denotation	N	Σx	of Σ_y rend I	h Scientifi _{Exy}	Σx^2
$\mathcal{O} \stackrel{\sim}{\rightarrow} \bullet$ Research and $\bullet \stackrel{\circ}{\rightarrow} \mathcal{O}$					

Neseal		
$Formula = \Sigma y = na + b\Sigma x$	$Formula = \Sigma xy = a\Sigma x + b\Sigma x^2$	
By replacing the formula with values	By replacing the formula with values	
464210 = 3a + 496710b SN: 24	7360203851 = 496710a + 120634422200b	
Multiply by 496710	Multiply by 3	
230577749100 = 1490130a + 246720824100b Eq 1	22080611553 =1490130a + 361903266600b Eq 2	
Subtract Eq 2 from Eq 1 we get:		
208497137500 = 0 - 115182442500b		
b = 208497137500 / 115182442500 = 1.8101		
Now, replacing b = 1.8101 in Eq 1 i.e. 464210 = 3a + 496710 (1.8101) 464210 = 3a + 899094.771		
-3a = 434884.771 a = -144961.59		

Working Capital (y) = -144961.59 + 1.8101 Sales (x)

The above equations can be used to forecast working capital (dependent variable) by use of sales (independent variable)

2. Working Capital & Front Regression Analysis					
Sl. No	Year	Profit (x)	Working Capital (y)	Product of Profit and Working Capital (x*y)	Square of Profits (x ²)
1	2015	23167	161189	3734265563	536709889
2	2016	-42783	128685	-5505530355	1830385089
3	2017	420	174336	73221120	176400
Gross Total	3	-19196	464210	-1698043672	2367271378
Denotation	Ν	Σx	Σy	Σxy	Σx^2

2. Working Capital & Profit Regression Analysis

$Formula = \Sigma y = na + b\Sigma x$	Formula = $\Sigma xy = a\Sigma x + b\Sigma x^2$
By replacing the formula with values	By replacing the formula with values
464210 = 3a - 19196b	(1698043672) = (19196) a + 2367271378b
Multiply by (19196)	Multiply by 3
(8910975160) = (57588) a + 368486416b	5094131016 = 57588a + 710181411b
Subtract Eq 1 from Eq 2 we get:	C P
140051061800 = 0 + 673332770b	
b = 140051061800 / 673332770; b = 207.99	
Now, replacing $b = 207.99$ in Eq 1	
i.e. 464210 = 3a – 19196(207.99)	
464210 = 3a – 3992576.04	al Journal 🏅 🐔 🏹
-3a = 3528366.04 Trend in a = -1176122.013	Scientific 🚦 😫 🖉

Working Capital (y) = -1176122.013 + 207.99 Profit (x)

The above equation can be used to forecast working capital (dependent variable) by use of profit (independent variable).

Findings

- Niva Holdings has a higher NWC which indicates that the company has a greater potential to meet its current obligations as seen from the calculations.
- The liquidity position of Niva Holdings is favourable as their liquid ratio.
- The relationship with the shareholders seems healthy as they are paying off their shareholders on time.
- The company is not making use of given credit facility as they have been consistent in paying off their creditors on time.
- A relationship has been established between Working capital and Sales using he following equation: Working Capital (y) = -144961.59 + 1.8101 Sales (x).
- A relationship has been established between Working capital and Profit using he following equation: Working Capital (y) = -1176122.013 + 207.99 Profit (x).

Suggestions

- The company can consider making optimal use of the credit facility available as they have been paying their creditors on time.
- > The company can also increase the Debtors for contingency in case there are any financial emergency in the future.
- Avoiding of high liquidity in the operations is recommended as there might me high cash outflows and liquidity does not earn any return to the firm.

Conclusion:

The study has been helpful to understand the Working Capital Management. The organisation has seen an inconsistent trend with respect to its working capital management. The trends wobble between the extremes of financial stability. Major finding of the study was that the company has been seeing a wavy trend with respect to its ratios. The study has also revolved around establishing a relationship between Working Capital & Sales also Working Capital & Profit of the organisation.

BIBLIOGRAPHY

Reference Articles:

- 1. Dr.T.Durga Prasad (2015), Working Capital Management with Regression Analysis (With reference to Visakhapatnam Steel Plant (RINL), VSP), Volume 3, Issue 8, ISSN 2349-4476
- 2. Jisha Joseph, (2014), Impact of Working Capital Management on Firm"s Profitability and

Liquidity: An Empirical Study of Ashok Leyland Ltd., International Journal of Research in Commerce and Management, Vol. 5, No. 2, pp. 32-38

 Madhavi K., (2014), Working Capital Management of Paper Mills, International Journal of Research in Business Management, Vol. 2, No. 3, pp. 63-71

Webliography:

➢ en.niva.by

