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Working capital management: A case study on ABJA investment CO. PTE. LTD. (Subsidiary of Tata Steel)

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Abstract

Purpose of this case study is to understand the concept of working capital management and actual working capital position of a subsidiary of Tata Steel. Identifying the major components of the working capital with the help of studying and analyzing the balance sheet of the company. Identifying the factors which lead to increase or decrease in ABJA Investment Company. I have explained the concept of working capital management. The major decision management takes using working capital ratios. How ratios are calculated and how their impact on companies operations and management decision? ABJA Investment Company issues guaranteed notes listed on the Open Market of the Frankfurter Wertpapierborse, Frankfurt Stock Exchange and the Official List of the Singapore Exchange Securities Trading Limited. The company is based in Singapore. I have analyzed its financial data in last 3 years and calculated its ratios and provided by suggestion based on my analysis.

Working capital management is to utilize the two components of working capital, current assets and current liabilities, to ensure the most financially efficient operation of the company. Working capital management is to make sure the company always maintains sufficient cash flow to meet its short-term operating costs and short-term debt obligations.

The working capital cycle is the amount of time it takes to turn the net current assets and current liabilities into cash. The longer the cycle is, the longer a business is tying up capital in its working capital without earning a return on it. Therefore, companies strive to reduce their working capital cycle by collecting receivables quicker or sometimes stretching accounts payable.

Keywords: Working capital management, balance sheet, ratios, cash position, working capital position

Introduction

Working capital management refers to a company's managerial accounting strategy designed to monitor and utilize the two components of working capital, current assets and current liabilities, to ensure the most financially efficient operation of the company. The primary purpose of working capital management is to make sure the company always maintains sufficient cash flow to meet its short-term operating costs and short-term debt obligations.

The working capital cycle is the amount of time it takes to turn the net current assets and current liabilities into cash. The longer the cycle is, the longer a business is tying up capital in its working capital without earning a return on it. Therefore, companies strive to reduce their working capital cycle by collecting receivables quicker or sometimes stretching accounts payable.

Effective working capital management helps company's smooth financial operation, and helps to improve the company's earnings and profitability. Management of working capital includes inventory management, management of accounts receivables, cash management, accounts payables, derivatives and tax liabilities.

Management uses a combination of policies and techniques for the management of working capital. The policies aim at managing:

- 1. **Debtor's management:** It identifies the appropriate credit policy, i.e. credit terms which will attract customers, such that any impact on cash flows and the cash conversion cycle will be offset by increased revenue. Ratio calculated for this is Working capital ratio.
- 2. Cash management: It identifies the cash balance which allows for the business to meet day to day expenses, but reduces cash holding costs. Ratio calculated for this is Acid Test Ratio and Cash Ratio.

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- 3. Inventory management: It identifies the level of inventory which allows for uninterrupted production but reduces the investment in raw materials, minimizes reordering costs and hence increases cash flow. It leads times in production should be lowered to reduce Work in Process and similarly the Finished Goods should be kept on as low level as possible to avoid overproduction. Ratio calculated for this is Inventory turnover ratio.
- **4. Short-term financing:** It identifies the appropriate source of financing, given the cash conversion cycle: the inventory is ideally financed by credit granted by the supplier; however, it may be necessary to utilize a bank loan (or overdraft), or to "convert debtors to cash" through "factoring". It's an overall assessment from all the working capital management ratios.

Working capital management majorly involves maintain and monitoring cash flow, current assets and current liabilities through ratio analysis. Ratio analysis includes the working capital ratio, collection ratio and the inventory turnover ratio.

Ratios of Working Capital Management

1. The working capital ratio: It is calculated as current assets divided by current liabilities, is considered a key indicator of a company's fundamental financial health since it indicates the company's ability to successfully meet all of its short-term financial obligations. A working capital ratio below 1.0 is indication of a company having trouble meeting short-term obligations, usually due to insufficient cash flow. Working capital ratio between 1.2 to 2.0 is considered desirable and a ratio higher than 2.0 may indicate a company is not making the effective use of its current assets.

Working Capital Ratio = Current Assets / Current Liabilities

2. Acid Test Ratio: It is calculated as quick assets divided by current liabilities. It often gives choices about the liquidity of working capital is the acid test ratio or quick ratio. Quick assets are defined as current assets minus inventory. Among the various element of working capital, inventory is relatively less liquid and hence deducted from total current assets to give the value of quick assets in the firm. The ratio is often used to supplement the information furnished by a current ratio. An acid test ratio of 1:1 is considered satisfactory.

This norm, however, should be interpreted with caution. A higher ratio does not necessarily mean that it is not good nor lower ratio means that it is bad.

Acid test ratio = (Current assets – inventory) / Current liabilities.

3. Cash Ratio: It is calculated as cash elements divided by current liabilities. Only cash and marketable securities have been used in the numerator as they are highly liquid. Thus, each ratio measures absolute liquidity of the business. It can give significant insight into the liquidity position if used in conjunction with current and acid test ratios.

Cash ratio = cash and marketable securities/ Current liabilities

4. Inventory Turnover Ratio: It is calculated as revenues divided by inventory cost, reveals how rapidly a company's inventory is being sold and replenished. A relatively low ratio compared to industry peers indicates inventory levels are excessively high, while a relatively high ratio indicates the efficiency of inventory ordering can be improved. To operate with maximum efficiency and maintaining an effective working capital. A company has to maintain its working capital to meet customer need instead of unnecessary ties up of working capital for a long period of time before it is converted into cash. Companies typically measure how efficiently that balance is maintained by monitoring the inventory turnover ratio. Inventory Turnover Ratio = Revenue / Inventory Cost

Study on Abja Investment Co. Pte. Ltd. Financials AND Calculation of its Working Capital Position

It is a subsidiary company of TATA STEEL. Abja Investment Co. Pte. Ltd. provides treasury services. It issues guaranteed notes listed on the Open Market of the Frankfurter Wertpapierborse, Frankfurt Stock Exchange and the Official List of the Singapore Exchange Securities Trading Limited. The company is based in Singapore. Abja Investment Co. Pte. Ltd. operates as a subsidiary of Tata Steel Limited. The directors of the Company are Sandip Biswas, Swapna Nair and Samita Jigar Shah.

Study on its Working Capital.

I have extracted the financial statement of last three financial years to analysis working capital position of the company.

USDk	FY 1617	FY 1516	FY 1415
Interest income	112,398	114,957	32,875
Finance costs	- 97,723	- 97,508	- 69,027
Cash and Cash equavlent	16,233	11,770	7,360
Other Receivables	23,001	21,699	17,235
Drivatives Financial Insturments	309	150	265
Currrent Assests Total	39,543	33,619	24,860
Loan Receivables	1,679,085	1,690,932	1,670,502
Derivatives	12,808	4,793	7,563
Non Current Assets Total	1,691,893	1,695,725	1,678,065
Total Assests	1,731,436	1,729,344	1,702,925

Other payables	Т	27,939		32,254		24,564
Loan payable	\top	-		37,800		37,800
Tax payable		1,704		450		310
Current liabilities Total		29,643		70,504		62,674
Guaranteed notes		1,703,077		1,708,921		1,702,524
Loans from group companies		37,800		-		-
Deferred tax liability		1,776		1,796		93
Derivative financial instruments		68		688		469
Non-current liabilities Total		1,742,721		1,711,405		1,703,086
Share capital 15 200 200		200		200		200
Accumulated losses	-	41,118	-	52,755	-	63,025
Translation reserve	-	10	-	10	-	10
Capital and Rreserve Total	-	40,928	-	52,565	-	62,835
Total Iiabilities		1,731,436		1,729,344		1,702,925

Source: http://www.tatasteel.com/media/3675/1-abja-investment-co-pte-ltd.pdf

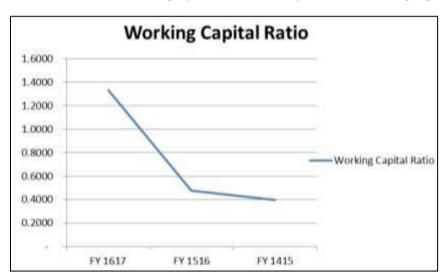
Using financial values mentioned in above table, I have calculated three ratios

Ratios	FY 1617	FY 1516	FY 1415	Method Used
Working Capital Ratio	1.3340	0.4768	0.3967	Current Assets / Current Liabilities
Cash Ratio	0.5476	0.1669	0.1174	Cash & Cash Equvlent / Current Liabilities
Financing / Inventory Turnover Ratio	1.1502	1.1789	0.4763	Interest Income / Finance Cost

Working Capital Ratio

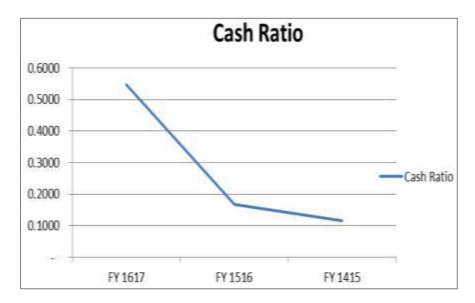
In last three years companies has improved in this ratio. Currently it is in bracket of 1.2 to 2 ratios. Company has shown improvement on current asset which is increased from USD 24 million to USD 39 million and company is

able to reduce its current liabilities by repaying its short term loan of USD 37 million which is effect of increase in cash position. So in last three years company has really worked on its working capital position, which is very well reflected by increase in working capital ratio.



Cash Ratio

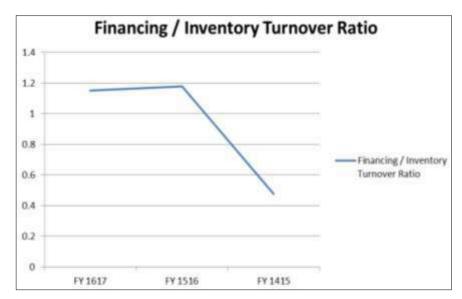
Cash ratio has also improved in the similar trend in which working capital ratio has improved for the company. Major reason for increase in cash ratio is increase in its operation income, which lead to increase in cash position as debtors didn't increased in the same % of increase in cash. It means company has really improved on its payment terms. Again it's a positive sign for the company and with increase in cash in business means they can invest in expansion of their business.



Inventory Turnover Ratio

Major business of the company is to generate revenue from financing activities. So we have calculated its financing turnover ratio which is kind of inventory for this company. As per my analysis there is an increase in this ratio in last 3 years is due to increase in its revenue / sales which lead to higher investment in its inventory. It is a good sign as

company has improved on its working capital cycle and cash position. Although increase in this ratio is not considered a good sign reason is company has stuck up its capital in inventory which is not paying off accordingly. But in this scenario due to increase in its sales lead to an increase in this ratio. So company is doing good.



Suggestions

Company is doing great in terms of its working capital management area. Major reasons are:

- 1. It has improved its cash from USD 7 million to USD 16 million in last three years.
- 2. Other receivables increased from USD 17 million to USD 23 million in last three years.
- 3. Other payable reduced significantly.
- 4. Interest income increased from 32 million to 112 million.

It means company has improved on its cash position and on its working capital cycle. So the management and company should work on the same parameters in coming years as well, which lead to increase in working capital position.

References

- 1. Adner R, Levinthal DA. What is not a Real Option: Considering Boundaries for the Application of Real Options to Business Strategy, Academy of Management Review. 2004; 29(1).
- Amram M, Kulatilaka N. Real Options. Managing Strategic Investment in an Uncertain World, Harvard Business School Press, Boston, 1999.
- 3. Asch D, Kaye GR. Financial Planning. Profit Improvement through Modelling, Kogan Page, London, 1997.
- 4. Back P. Testing Liquidity Measures as Bankruptcy Prediction Variables, Liiketaloudellinen Aikakauskirja. The Finnish Journal of Business Economics. 2001, (3).
- 5. Baker M, Wurgler J. Market Timing and Capital Structure. Journal of Finance. 2002, 57.

- 6. Banos-Caballero S, García-Teruel PJ, Martinez-Solano P. Working capital management in enterprises, Accounting & Finance. 2010; 50(3):511-527.
- 7. Baxter M, Rennie A. Financial Calculus. An Introduction to Derivative Pricing, Cambridge University Press, Cambridge, 1996.
- 8. Baz J, Chacko G. Financial Derivatives. Pricing, Applications and Mathematics, Cambridge University Press, Cambridge, 2004.
- Beck PE, Stockman DR. Money as Real Options in a Cash-in-Advance Economy, Economics Letters, 2005, 87.
- 10. Ben-Horim M, Levy H. Inflation and the trade credit theory period, Management Science. 1982; 28(6):646-651.
- 11. Berger PG, Ofek E, Swary I. Investor Valuation of the Abandonment Option, Journal of Financial Economics. 1996; 42(2).
- 12. Black F, Scholes M. The Pricing of Options and Corporate Liabilities. Journal of Political Economy. 1973, 81.
- 13. Blaug M. Economic Theory in Retrospect, Cambridge University Press, Cambridge, 1985.
- 14. Brasch JJ. The role of trade credit in economic development, Nebraska Journal of Economics and Business. 1972; 11(1):63-67.
- 15. Brealey RA, Myers SC. Basics of enterprises finance (Polish edition: Podstawy finansow przedsiebiorstw), WN PWN, Warszawa, 1999,
- 16. Brennan MJ, Schwartz ES. Evaluating Natural Resource Investments. Journal of Business. 1985; 58(2).
- 17. Brigham EF. Hurdle Rates for Screening Capital Expenditure Proposals, Financial Management, 1975,
- 18. Cassimon D, Engelen PJ. The New Frontiers of Corporate Finance, Global Business Review. 2003; 5(1).
- 19. Charnes A, Cooper W, Rhodes E. Measuring the Efficiency of Decision Making Units, European Journal of Operational Research, 1978, 2.
- 20. Chriss NA. Black-Scholes and Beyond. Options Pricing Models, McGraw-Hill, New York, 1997,
- 21. Cokins G. Performance Management, Finding the Missing Pieces to Close the Intelligence Gap, John Willey & Sons, Hoboken, 2004,
- 22. Copeland TE, Antikarov V. Real Options: A Practitioner's Guide, Business & Economics, Texere, London, New York, 2001,
- 23. Copeland TE, Keenan P. How much is Flexibility Worth! The McKinsey Quarterly 2. EF TU Košice Habilitation thesis, 1998, 140.
- 24. Copeland TE, Weston J. Financial Theory and Corporate Policy, Addison Wesley, Reading, 1988,
- Copeland TE, Weston JF. A Note on the Evaluation of Cancellable Operating Leases, Financial Management, 1982, 11.
- Copeland TE, Weston LF, Shastri K. Financial Theory and Corporate Policy, Addison Wesley Publishing Company, 2004,
- 27. Copeland TE, Weston LF, Shastri K. Financial Theory and Corporate Policy, Addison Wesley Publishing Company, Boston, 2004.
- 28. Cote JM, Latham CK. The Merchandising Ratio: A Comprehensive Measure of Current assets Strategy,

- Issues in Accounting Education. 1999; 14(2):255-267.
- 29. Cox J, Ross S, Rubinstein M. Option Pricing: A Simplified Approach. Journal of Financial Economics. 1979, 7.
- 30. Damodaran A. Applied Corporate Finance. A User's Manual, John Wiley & Sons, New York, 1999,
- Dixit AK, Pindyck RS. Investment under Uncertainty, Princeton University Press, Princeton, New Jersey, 1994
- 32. Fernandez P. Valuing Companies by Cash Flow Discounting: Ten Methods and Nine Theories, Working Papers IESE Business School, Madrid, 2001a.
- 33. Fernandez P. Valuing Real Options: Frequently Made Errors, Working Papers IESE Business School, Madrid, 2001b.
- 34. Fernandez P. Valuation Methods and Shareholder Value Creation, Academic Press, Elsevier, San Diego, 2002.
- 35. Fewings DR. Unbiased trade credit Decisions under imperfect information, Advances in Working Capital Management, 1996, 3.
- 36. Fisher E, Heinkel R, Zechner J. Dynamic capital structure choice: theory and tests. Journal of Finance. 1989, 44.