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The impact of the global economic crisis on working capital of real sector in Turkey

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Objective of this study is to reveal the impact of the recent global economic crisis, triggered in 2007 and unveiled in 2008, on the working capital of real sector in Turkey. Since it is obvious that ratios would help in such an analysis, we have analyzed the current assets and liabilities related ratios, based on financial statements of Turkish real sector firms, quoted in the Istanbul Stock Exchange (ISE). Pre-crisis era has been compared with the crisis era, while the degrees of the affection of the real sector current assets and current liabilities have been tested through hypotheses, and two-tail-significance test has been conducted. The results of this study draw conclusions from an empirical investigation showing that the 45 ISE companies, chosen among others, have been affected on a limited basis.

JEL Classifications: F30, G01, G32

Keywords: Real sector, global economic crisis, working capital, ratio analysis.

Introduction

Contemporary companies are forced to compete in the national and also global markets under crucial rules. For sustainable profits a company has to apply a disciplinary manner, scan the rivals, and satisfy its shareholders and uncountable stakeholders. Not only companies coated in stock exchanges markets, but also the others have to apply dynamic financial management techniques and leave the old fashioned management styles. It is believed that by managing this way, a company may prosper and reach improved performance levels.

Even though the importance of efficient working capital management is well known, still there are companies on different scales not stressing working capital management. Fatih Özatay (2009) emphasizes that there are a few basic things not to be forgotten, under crises circumstances. No matter the company is public or private; there will be a problem under poor balance sheet conditions. Working capital is related to company characteristics, financial conditions and company indicators as well. Since poor performance through the end of 1990s, financial institutions applied tight credit policies in order to decrease deposit/loans ratio. In order to adapt to changing financial conditions, investors were supposed to manage more prudently their working capitals. Kargar and Blumenthal (1994) demonstrated that many investments shut-down due to bad working capital management despite healthy operations and profits (Chiou et al., 2006). In addition, minute decreases in additional working capital investment may increase the prices of shares (Strischek, 2001).

Even though working capital management, meaning the investment in current assets and comprising the management of assets which are to be liquidated in a year or less, is very crucial to companies, no efficient analyses are observed. However, net working capital affects the decisions to reach the optimum balance between the company capital and the risk. The healthy and efficient cash management and taking proper decisions considering receivables and inventory management are required. Net working capital shows the debt payment ability of the firm and is the difference between the assets and external sources to be liquidated in less than a year.

Studies about working capital

A study on determinants of working capital management (WCM), such as conjuncture indicators, industry impact, and company cash flow, leverage, growing opportunities, company performance and size of company, has been conducted by Chiou et al. (2006). Data about 35 quarters, starting with the first quarter of 1996 and the third quarter of 2004, have been used. NLB¹ and WCR² have been applied; the results demonstrate that leverage and cash flow are affecting working capital management (2006).

Filbeck and Krueger (2005) argued that companies minimizing the fund levels on current assets are able to decrease the cost of financing or can use the excess of funds in reinvestment. These authors used CFO (Chief Finance Officer) magazine's data about yearly Company Working Capital Management Survey to make a research in the basic items of WCM. Working capital measurements of 1000 companies from 32 industry sectors, each comprising at least 8 companies, were used to calculate the mean and variance. The questions put in analysis were as follows; "is there a concentration of sector specific firms in working capital measurement?"; "does WCM performance of sector specific firms change from one year to another?" They have concluded that working capital measurements of seriously differ through time (Filbeck and Krueger, 2005).

Global economic crisis

In our analysis it will be proper to discuss the crisis prevailing conditions of Turkish economy. Mentioned indicators are given in Table 1. As can be seen in the table, yearly inflation rate increased from 8.39% in the 4th quarter of 2007 to 11.13% in the 3rd quarter 2008. Central Bank's interest rate increased from 15.75% to 16.25% during the same period. Due to the cash outflows, dollar/TL parity depreciated from 1.26 in the 3rd quarter 2008 to 1.67 in the 1st quarter of 2009. Unemployment rate increased from 10.3% to 15.8% during the same period.

The growth rate in Gross Domestic Product (GDP) dropped from 0.9% to -14.6% in the same period. As a result of this huge drop in the GDP rate, the inflation rate dropped from 11.13% in the 3rd quarter of 2008 to 5.27% in the 3rd quarter of 2009. There was a parallel shift in the interest rates of the Central Bank; the interest rate decreased from 16.75% to 7.25% during the same period. The growth rate of GDP sustained positive: it is 6% in the 4th quarter of 2009. As a result of these prevailing economic conditions in Turkey, it would not be wrong to argue that the impact of Global economic crisis (GEC) did not continue for long period of time.

There were short-term capital outflows in the third quarter of 2008 in emerging markets due to the GEC. As a result of these capital outflows, Turkish Lira depreciated against other currencies, economic growth diminished, and unemployment increased. GEC led to increase in the currency, liquidity and credit risks in emerging markets like Turkey. These risks also influenced real sector in Turkey.

During GEC, it is believed that every country and almost each sector and most of the companies are affected negatively. However, while causing threats in some sectors, crises also bring new opportunities to some others. Therefore, it would be meaningful to analyze companies representing the sector they are in. The crisis is not over yet. This is why it is not possible to diagnose exact effect of it. However, it is possible to understand the short term effect of the crisis. Working capital management is one of the cornerstones of business continuity and acts as a hedge against tightening credit and access to additional

¹ NLB = Net Liquid Balance. [(cash and the like + short term investments) - (short term liabilities + commercial notes payables + long term investments' payments due in a year)].

 $^{^{2}}$ WCR = Working Capital Requirements. [(receivables + inventory) - (liabilities + incurred expenditures +other liabilities)].

capital. Companies which manage their working capital optimally during times of recessions come out stronger after the recession period. During times of boom cycles it is easy to forecast working capital needs and manage liquidity. The real test however comes during bust cycles as witnessed by the world during 2008 and 2009. GEC has forced many companies into cash flow problems, due to non availability of working capital, which in turn have led to shrinkage of operations, postponement of plans for capital expansion into different markets, etc.

Thus, the impact of GEC on the working capital (current assets and current liabilities) of real sector in Turkey is analyzed in this study by using ratio analyses. Similar studies are explained in the following section. Next section explains research methodology of the study. The rest sections present empirical findings and conclusion.

Similar studies about the impact of economic crisis on real sector

One of the studies including the economic crisis period between 1999 and 2001 examined the impact of financial leverage on 96 firms in four sectors of the real sector in Turkey for twelve periods (Gunay, 2002). By using t-tests and regression analysis, this study proved that the sectors with high leverage have lost more than the ones with low leverage after economic crisis. Another study, which focused on the same economic crisis in Turkey for the periods 1999 and 2002, found similar results (Dogan, 2005). Liquidity ratios, asset management ratios and profitability ratios were used in this study in order to examine the impact of economic crisis on Turkish real sector. The empirical findings of this study showed that average sales incomes of 100 manufacturing firms that are quoted in Istanbul Stock Exchange in 1997 are below their sales levels at the end of 2001.

There are also studies examining the impact of GEC on emerging markets. Yang and Young (2009) have examined the impact of GEC on South Korean economy. They have found that intensive capital outflows by foreign investors created a serious impact on this economy even though macroeconomic indicators of South Korea were very strong before the crisis. These sudden capital outflows are termed as "Systemic Sudden Stops" by Calvo, Isquierdo and Mejia (2008). Jacob and Chander (2009) also studied the impact of GEC on Indian economy. They have examined the periods between 2005 and 2009 for 192 firms in nine sectors of Indian real sector. They have found that GEC has not affected the real sector in India substantially. Countries that are dependent on commodities (e.g., South Africa) are also affected from GEC. As the economic crisis deepened at the end of 2008, platinum group of metal mining companies in South Africa were forced to lay-off about 10.000 employees, and foreign investments were also adversely affected (Te Velde, 2008). It is documented by Cali, Massa and Te Velde (2008) that foreign direct investment to countries such as Turkey declined by 40% in 2008.

Research methodology

In order to understand the impact of the GEC on the working capital components, thirteen ratios specifically related to working capital have been used in this analysis. The list of these ratios is as follows:

- 1. Current Ratio (CR)
- 2. Liquidity Ratio (LR)
- 3. Cash Ratio (CAR)
- 4. Inventory-to-Current Assets Ratio (ICAR)
- 5. Short Term Receivables-to-Current Assets Ratio (STRCAR)
- 6. Current Assets-to-Total Assets Ratio (CATAR)
- 7. Short Term Liabilities-to-Total Assets Ratio (STLTAR)

- 8. Short Term Liabilities-to-Total Liabilities Ratio (STLTLR)
- 9. Short Term Bank Loans- to- Short Term Liabilities Ratio (STBLSTLR)
- 10. Stock Turnover Rate (STR)
- 11. Receivables Turnover Rate
- 12. Working Capital Turnover Rate
- 13. Net Working Capital Turnover Rate

For evaluation of the listed ratios, 140 manufacturing companies traded in Istanbul Stock Exchange (ISE) are determined as the population of the study. The list of the company names, number of all companies in each sector, number of firms chosen for representation and the size of their capital are given in Table 2.

These companies are already classified in eight sectors by ISE managers. In order to represent each sector a total of 45 manufacturing companies have been randomly chosen, to form the sample, on condition that they deliver balance sheet and income statement in Excel format and have been traded continuously in ISE, between the first quarter of 2004 and third quarter of 2009. For this purpose a list of 140 ISE traded companies, downloaded from the ISE web site, have been used. In each sector, companies have been sorted according to their capital. In order to represent each sector, comparatively small, medium and large size companies have been identified.

Six companies out of twenty-one have been chosen from the Food, Beverages and Tobacco Sector. In order to represent the Textile, Wearing Apparel and Leather sector, five companies out of nine-teen have been chosen for evaluation. There are solely two companies belonging to Manufacturing Wood, Products of Wood and Furniture sector, both are included. Paper and Paper Products, Printing and Reproduction of Recorded Media sector is represented by six companies out of thirteen.

Seven chemicals, petroleum products, rubber & plastic products companies out of twentyone represent the sector. Non-Metallic Mineral Products sector is represented by twentyfour companies in SEC. We have chosen five of them. Similarly, five companies have been chosen to represent Basic Metals sector which comprises fourteen companies under ISE. Six out of twenty-three companies under the title Fabricated Metal Products represent the sector in our research. Lastly, all three companies as listed in Other Manufacturing Sector in SEC take place in the research.

Most of researchers point Fall of 2008 as the beginning of the crisis. Therefore, the era of 2004-2007 is accepted as pre-crisis era and named I.Period. With respect to this logic, 2008-2009 as being the crisis era, is named II.Period.

However, due to coincidental facts, we feel lucky to determine precisely the beginning of the crisis as the second half of 2007. Therefore, we have another set of pre-crisis and crisis era. Under this assumption pre-crisis era comprises 14 quarters starting with the first quarter of 2004, ending with the second quarter of 2007. This is the III.Period. The last 9 quarters make up the IV.Period, continuing from the beginning of the third quarter of 2007 to the end of third quarter of 2009.

In this study we have 23 quarters, 45 companies and 13 ratios. Totally 13 455 formulas have been created by referring to several cells in the balance sheet and income statement tables of the companies. Calculated ratios have been evaluated via SPSS 17.0 by using normality test, paired samples t-test and non-parametric Mann-Whitney U-test. All results have been evaluated on p < 0.05 significance level. The thirteen hypotheses that are tested in this study can be seen below.

1. H₀: Crisis era Current Ratio is not significantly differing from pre-crisis era.

H1: Crisis era Current Ratio is significantly differing from pre-crisis era.

2. Ho: Crisis era Liquidity Ratio is not significantly differing from pre-crisis era.

H1: Crisis era Liquidity Ratio is significantly differing from pre-crisis era.

3. H₀: Crisis era Cash Ratio is not significantly differing from pre-crisis era.

H1: Crisis era Cash Ratio is significantly differing from pre-crisis era.

4. H₀: Crisis era Inventory-to-Current Assets Ratio is not significantly differing from precrisis era.

H1: Crisis era Inventory-to-Current Assets Ratio is significantly differing from precrisis era.

5. H₀: Crisis era Short Term Receivables-to Current Assets Ratio is not significantly differing from pre-crisis era.

H₁: Crisis era Short Term Receivables-to Current Assets Ratio is significantly differing from pre-crisis era.

6. H₀: Crisis era Current Assets-to-Total Assets Ratio is not significantly differing from pre-crisis era.

H₁: Crisis era Current Assets-to-Total Assets Ratio is significantly differing from precrisis era.

7. H₀: Crisis era Short Term Liabilities-to-Total Assets Ratio is not significantly differing from pre-crisis era.

H1: Crisis era Short Term Liabilities-to-Total Assets Ratio is significantly differing from pre-crisis era.

8. H₀: Crisis era Short Term Liabilities -to- Total Liabilities Ratio is not significantly differing from pre-crisis era.

H₁: Crisis era Short Term Liabilities -to- Total Liabilities Ratio is significantly differing from pre-crisis era.

9. H₀: Crisis era Short Term Bank Loans -to- Short Term Liabilities Ratio is not significantly differing from pre-crisis era.

H₁: Crisis era Short Term Bank Loans -to- Short Term Liabilities Ratio is significantly differing from pre-crisis era.

10. Ho: Crisis era Inventory Turnover Rate is not significantly differing from pre-crisis era.

H₁: Crisis era Inventory Turnover Rate is significantly differing from pre-crisis era.

11. H₀: Crisis era Receivables Turnover Rate is not significantly differing from pre-crisis era.

H1: Crisis era Receivables Turnover Rate is significantly differing from pre-crisis era.

12. H₀: Crisis era Working Capital Turnover Rate is not significantly differing from precrisis era.

H₁: Crisis era Working Capital Turnover Rate is significantly differing from pre-crisis era.

13. H₀: Crisis era Net Working Capital Turnover Rate is not significantly differing from pre-crisis era.

H₁: Crisis era Net Working Capital Turnover Rate is significantly differing from precrisis era.

Empirical findings

According to Kolmogorov-Smirnov Test, data have been normally distributed for all the periods and for all the ratios. Based on paired samples t-test and Mann Whitney u-test, thirteen hypotheses that are formed for the ratios related with the working capital of real sector are tested and the findings for each ratio are given below.

a. Current ratio

Under the assumption that pre-crisis era is straightly 2004-2007 and crisis era is 2008 - 2009; H_0 is accepted and H_1 rejected. This result does not show any difference under the assumption that the crisis really started at the beginning of the third quarter of 2007. Finally, the data have been tested for another time zone. In order to catch any immediate effect of the crisis, the last quarter of 2007 has been compared to the same quarter of 2008. Again, H_0 is accepted and H_1 rejected As a result, for the 45 ISE traded companies it is to be admitted that the crisis has no significant effect on current ratio.

b. Liquidity ratio (acid-test ratio)

Under the assumption that pre-crisis era is straightly 2004-2007 and crisis era is 2008-2009; H_0 is accepted and H_1 rejected. Under the assumption that the crisis really started at the beginning of the third quarter of 2007; H_0 is accepted and H_1 rejected. The comparison of the 4th quarter of 2007 with the 4th quarter of 2008 helps us in accepting H_0 and rejecting H_1 . It can be concluded that liquidity ratio for the 45 ISE traded companies has not been affected by the crisis.

c. Cash ratio

According to the results of the paired sample t-test and Mann-Whitney U test, under the assumption that pre-crisis era is 2004-2007 and crisis era is 2008-2009; H_0 has been accepted and H_1 rejected. Since same results are valid for the other periods mentioned above, it can be said that this crisis did not affect the cash ratio for the ISE traded 45 companies.

d. Inventory to current assets ratio

Paired samples t-test implies us to reject H_0 and accept H_1 , for the pair of pre-crisis era as 2004-2007 and crisis era as 2008-2009. However, with the alternative definition of the periods, pre-crisis era ending at the beginning of the 3rd quarter of 2007, H_0 is accepted and H_1 is rejected. When the last quarters of the years 2007 and 2008 are compared, again we reject the H_0 and accept H_1 . Even though Mann-Whitney U test reveals that the crisis did not have any significant influence on inventory management, in the light of the other data, we may comment that inventory to current assets ratio of 45 companies traded in ISE has been affected. The comparison between the I.Period and the II.Period tells us that this is a positive impact. Sectors' average for this ratio is 32.40% before the crisis and 29.46% during the crisis. One explanation would be improved inventory management; another would be procurement/production following orders.

e. Short term receivables-to current assets ratio

According to paired samples t-test and Mann-Whitney U- test, the comparison of the I. period with the II. Period H_0 is accepted and H_1 is rejected. III. Period and IV. Period comparison implies us to accept H_0 and reject Hypothesis H_1 . The last quarters of 2007 and 2008 as a pair, again H_0 is accepted and H_1 is rejected. Thus, we comment this ratio is not significantly affected for ISE traded 45 companies.

f. Current assets-to-total assets ratio

For all of the pairs, namely [I.Period - II.Period], [III.Period - IV.Period] and [last quarters of 2007 and 2008], H_0 is accepted and H_1 is rejected according to paired samples t-test and Mann-Whitney U test. Since *p* value is above 0.05 meaning that there is no significant difference, we comment this ratio is not affected for ISE traded 45 companies.

g. Short term liabilities-to-total assets ratio

As the Hypotheses H_0 and H_1 have been tested with the help of paired samples t-test, for three sets of periods namely [I.Period - II.Period], [III.Period - IV.Period] and [last quarters of 2007 and 2008] we accept H_0 and reject H_1 . Mann-Whitney U test also gives the result that there is no significant difference between the pre-crisis era and crisis era ratios of the 45 ISE traded companies. With the data available and according to the result of the tests, short term liabilities-to-total assets ratio has been affected for a short period of time at the time the last crisis trod the stage and the effect faded in the course of time.

h. Short term liabilities-to-total liabilities ratio

Comments made about the tests' results of this ratio, resembles the above explained one's. Thus, for short term liabilities-to-total liabilities ratio H_0 is accepted and H_1 is rejected for all the periods mentioned in this study; it is interpreted that the ratio of 45 companies traded in ISE is not significantly affected.

i. Short term bank loans-to-short term liabilities ratio

Paired samples t-test imposes us to reject H_0 and accept H_1 for all periods of the study. Mann-Whitney U test results are in the same direction. There is a meaningful influence of the crisis on the pair of I.Period - II.Period. Similarly, under the assumption that the crisis era starts in the second half of 2007, the crisis has significant impact on this ratio. Before the crisis the ratio of the 45 companies analyzed in this study was 28.49% on the average. During the crisis it rose to 38.95%. In the light of this data we may comment that this ratio has been affected by the crisis.

j. Inventory turnover ratio

As can be followed from the relevant tables, the tests executed enable the acceptance of the H_0 and rejection of H_1 for all period pairs [I.Period - II.Period], [III.Period - IV.Period] and [last quarters of 2007 and 2008]

k. Receivables turnover ratio

This ratio is one of the few crisis affected ratios. Even though paired samples t-test shows no significant difference between any of the periods of this study and tells us to accept H₀ and reject H₁, Mann-Whitney U Test results differ. Under the assumption that the years between 2004-2007 comprise the pre-crisis era, and the years 2008-2009 are crisis era; H₀ is to be rejected and H₁ to be accepted. For the 45 companies traded in ISE, *p* has the value below 0.05, thus there is significant effect of the crisis on Receivables Turnover Rate. During the crisis receivables turnover ratio become 5.04, whereas it was 15.8 before the crisis. This means that trade receivables are collected at a slower pace.

I. Working capital turnover ratio

Paired samples t-test imposes us to accept H_0 and reject H_1 for the I.Period-II.Period and III.Period-IV.Period pairs, but it is just the opposite for the last quarters of the years 2007 and 2008. Thus we accept H_1 and reject H_0 for this specific period. On the other hand, Mann-Whitney U test tells us to reject H_0 and accept H_1 for the pair of I. Period - II. Period. As can be followed from Table 3, working capital turnover ratio was 1.61 and deteriorated to 1.45 during the crisis. With *p* value under 0.05 meaning significant difference before and during the crisis era, it is to be agreed upon the fact that working capital rate of 45 companies traded in ISE is impacted.

m. Net working capital turnover ratio

Whatever interpretation is done for the preceding ratio, it is not valid for the net working capital turnover ratio. For all the periods mentioned in this study, H_0 , that the ratio is not significantly affected by the crisis is accepted. The result is supported both by paired samples t-test and Mann-Whitney U test. Therefore, it would not be wrong, commenting that the 2008 crisis has not affected this ratio of the 45 companies having been uninterruptedly traded in ISE since the first quarter of 2004.

According to the study on ISE, within the frame of the two statistical methods, significant but limited impact is identified in five ratios out of thirteen. Crisis affected ratios for 45 companies traded in ISE are summarized in Table 3.

Conclusion

This study found evidence that the recent crisis affected the ISE traded companies on a limited basis. Therefore, future research and study is recommended. First, the year 2009 is to be completed. Another set of research should follow including post-crisis era at the moment we decide this crisis is over.

As can be seen in Table 3, receivables turnover ratio is one of the most affected ratios among others. It was 15.18 times during the pre-crisis but it dropped to 5.04 during the crisis era. The reason for this important decline is related the drop in sales figures of real sector during the economic crisis.

Other ratios are not affected as much as receivables turnover ratio during the economic crisis. There are two important factors for this result. Interest rates dropped due to the decline in expected inflation during the GEC. The other reason is the credit easing during the economic crisis. As can be seen in Table 3, short term bank loan to short term liabilities ratio was 28.49% during the pre-crisis era but it increased to 38.95% during the crisis era. Since interest rates have declined and credit amount increased during the crisis, firms in the real sector responded to the impact of GEC by taking more debt from the banks.

Since capital outflows did not continue for a long period of time, capital inflows to Turkey have restarted, Turkish Lira did not appreciate too much against foreign currencies. Therefore, inflation is not affected too much from GEC. When unemployment figure jumped from 10.3% in the second period of 2008 to 15.8% in the first period of 2009, the inflation rate dropped from 10.61% in the second period of 2008 to 5.73% in the second period of 2009 due the decrease in the demand. Thus, central bank decreased the interest rate from 16.25% in the second period of 2008 to 8.75% in the second period of 2009. This has also affected interest rates of loans. As a result, this limited impact on the working capital of real sector is based on these positive developments (decrease in interest rates and increase in credit amount) in Turkish macro economy.

Today, there is too much hot money in the global economy. According to Chinese Vice Finance Minister Zhu Guangyao, the amount of hot money flowing around before GEC was 9 trillion dollar, and it is 10 trillion dollar after GEC (Forthe, 2010). This amount of money creates asset bubbles in all over the world. Federal Reserve is expected to initiate a second quantitative easing in order to boost growth. China struggles with inflation due to intensive capital inflows. Finally, some of the European countries (Ireland, Portuguese, Spain, and Greece) have debt problem. Since capital inflows restarted after GEC, it would not be wrong to say that the real sector of Turkey is not affected too much from the crisis. But same macro and micro financial results should not be expected in the future due this current global economic outlook. In other words, asset bubble can burst and most of the working capital ratios of real sector can be deeply affected in the future due to these important developments in the world economy. This is not only true for Turkey, but also for all the emerging economies.

If we compare the economic indicators presented in Table 1 with our empirical findings, it would not be wrong to argue that GEC did not affect the working capital of Turkish firms, due to the short term maturity characteristics of the economic crisis and the drop in the interest rates. When there were huge cash outflows during the economic crises in 1994 and 2001, interest rates and inflation both increased considerably. However, the interest rates and inflation decreased during GEC. Therefore, working capital of ISE traded Turkish firms is not affected too much, but this does not mean that the same economic results will occur in the future.

If firms do not want to encounter cash flow problems in the future, they need to be careful in managing their short-term assets and liabilities. Companies which manage their working capital optimally during times of recessions come out stronger after the recession period. Working capital management is one of the cornerstones of business continuity and acts as a hedge against tightening credit and access to additional capital. This study showed us that firms did not have important liquidity problems during the GEC, but this does not mean that capital inflows will go on in the future. For example, economic crisis in 1994 and 2001 in Turkey has shown us that firms, that managed their working capital poorly, had very difficult times during these economic crises.

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Appendix

Quarters	Yearly	CBRT	Dollar /	Yearly Current	Unemployment	GDP
	Inflation	Interest	Turkish Lira	Account Deficit	Rate	Growth Rate
	Rate (CPI)	Rate		(Million Dollars)		
2007 (4. Quarter)	8.39	15.75	1.16	38.0	10.6	3.4
2008 (1. Quarter)	9.15	15.25	1.32	41.0	10.7	7.0
2008 (2. Quarter)	10.61	16.25	1.23	44.4	9.0	2.6
2008 (3. Quarter)	11.13	16.75	1.26	48.5	10.3	0.9
2008 (4. Quarter)	10.06	15.00	1.53	41.6	13.6	-7.0
2009 (1. Quarter)	7.89	10.50	1.67	31.3	15.8	-14.6
2009 (2. Quarter)	5.73	8.75	1.54	20.9	13.0	-7.6
2009 (3. Quarter)	5.27	7.25	1.50	15.4	13.4	-2.7
2009 (4. Quarter)	6.53	6.50	1.52	14.0	13.5	6.0
2010 (1. Quarter)	9.56	6.50	1.52	22.1	13.7	11.7
2010 (2. Quarter)	8.37	6.25	1.58	27.3	10.5	10.3

TABLE 1. TURKEY'S ECONOMIC INDICATORS (2007 - 2010)

Source: Turkish Statistical Institution, Central Bank of the Republic of Turkey (CBRT), Republic of Turkey Ministry of Finance. Note: CPI - Consumer Price Index; GDP - Gross Domestic Product.

TABLE 2. THE LIST OF MANUFACTURING INDUSTRY COMPANIES TRADED IN ISE,
CHOSEN FOR RATIO ANALYSIS

Chosen/	Capital (TL)	Name of the sector
Total *	Capital (TL)	Name of the Sector
6/21		31 - Food, Beverages And Tobacco
	450,000,000	Anadolu Efes Biracilik Ve Malt Sanayii
	268,650,000	Ülker Bisküvi Sanayi
	100,000,000	Tukas Gida Sanayi Ve Ticaret Izmir
	44,951,051	Pinar Süt Mamulleri Sanayii Izmir
	27,639,480	Altinyag Kombinalari
	22,000,000	Seker Piliç Ve Yem Sanayi Ticaret
5/19		32 - Textile, Wearing Apparel And Leather
	194,529,076	Kordsa Global Endüstriyel Iplik Ve Kord Bezi San. Ve
		Tic.
	160,000,000	Vakko Tekstil Ve Hazir Giyim Sanayi Isletmeleri
	30,014,121	Ak-Al Tekstil Sanayi
	17,010,000	Yatas Yatak Ve Yorgan Sanayi Ticaret
	5,400,000	Derimod Konfeksiyon Ayakkabi-Deri Sanayi Ve
		Ticaret
2/2		33 - Manufacture Of Wood, Products Of Wood &
		Furniture
	58,631,040	Gentas Genel Metal Sanayi Ve Ticaret
	50,000,000	Kelebek Mobilya Sanayi Ve Ticaret
6/13		34 - Paper And Paper Products, Printing &
		Reproduction Of Recorded Media
	460,000,000	Hürriyet Gazetecilik Ve Matbaacilik
	100,000,000	Tire Kutsan Oluklu Mukavva, Kutu Ve Kagit Sanayi
		Tire
	65,000,000	Viking Kagit Ve Selüloz Izmir
	52,500,000	Alkim Kagit Sanayi Ve Ticaret
	9,000,000	Bak Ambalaj Sanayi Ve Ticaret

Chosen/	Capital (TL)	Name of the sector
Total *	4 000 000	
7/04	4,800,000	Kaplamin Ambalaj Sanayi Ve Ticaret Izmir
7/21		35 - Chemicals, Petroleum Products, Rubber & Plastic Products
	577 500 000	Petrol Ofisi Ankara
	577,500,000 548,208,000	Eis Eczacibasi İlaç, Sinai Ve Finansal Yatirimlar San
	546,206,000	Ve Tic
	300,000,000	Aygaz
	185,000,000	Aksa Akrilik Kimya Sanayii
	144,000,000	Deva Holding
	75,857,033	Hektas Ticaret Türk
	7,441,875	Brisa Bridgestone Sabanci Lastik San. Ve Tic.
5/24		36 - Non-Metalic Mineral Products
	580,000,000	Trakya Cam Sanayi
	191,447,068	Akçansa Çimento Sanayi Ve Ticaret
	112,830,900	Eczacibasi Yapi Gereçleri Sanayi Ve Ticaret
	28,512,000	Kütahya Porselen Sanayii Kütahya
	10,500,000	Haznedar Refrakter Sanayi
5/14		37 - Basic Metals
	1,148,812,50	Eregli Demir Ve Çelik Fabrikalari
	0	
	100,975,680	Çemtas Çelik Makina Sanayi Ve Ticaret
	34,000,000	Fenis Alüminyum Sanayi Ve Ticaret
	16,500,000	Çelik Halat Ve Tel Sanayii
	5,220,000	Erbosan Erciyas Boru San. Ve Tic. Kayseri
6/23		38 - Fabricated Metal Products
	675,728,205	Arçelik
	500,000,000	Tofas Türk Otomobil Fabrikasi
	335,456,275	Vestel Elektronik Sanayi Ve Ticaret
	112,233,652	Türk Prysmian Kablo Ve Sistemleri Mudanya
	54,000,000	Türk Demir Döküm Fabrikalari
	15,000,000	Klimasan Klima Sanayi Ve Ticaret
3/3		39 - Other Manufacturing
	80,000,000	Goldas Kuyumculuk Sanayi İthalat Ve İhr
	7,875,000	Adel Kalemcilik Ticaret Ve Sanayi
	7,250,000	Serve Kirtasiye Sanayi Ve Ticaret

Note: * The 1st number, 1st column shows the number of companies chosen from the sector, 2nd number is the total of sector; Companies chosen make up 32.4% of 140 companies traded in ISE. (45/140=0.324)

TABLE 3. AFFECTED WORKING CAPITAL RATIOS

Affected ratios	Pre-crisis era	Crisis era
Inventory Ratio	32.40%	29.46%
Short Term Bank Loans to	28.49%	38.95%
Short Term Liabilities Ratio		
Inventory Turnover Ratio	4.88 times	6.52 times
Receivables Turnover Ratio	15.18 times	5.04 times
Working Capital Turnover	1.61 times	1.45 times
Ratio		

		2004- 2007 Average	2008- 2009 Average	2004- 2007* Average	2009	All Years' Average
Current Ratio	Current Assets / ST Liabilities	203.97%	205.33%	201.94%	208.19%	204.39%
Liquidity Ratio	(Current Assets- Inventory-Prepaid Expenses-Other Current Assets) / Short Term Liabilities	134.40%	134.29%	133.58%	135.58%	134.36%
Cash Ratio	(Liquid Assets + Securities) / Short Term Liabilities	41.69%	31.48%	43.61%	30.77%	38.58%
Inventory Ratio	Inventory / Current Assets	32.40%	29.46%	32.27%	30.31%	31.50%
S.T. Receivables Ratio	Short Term Receivables /Current Assets	51.19%	51.52%	51.01%	51.73%	51.29%
Current Assets Ratio	Current Assets / Total Assets	54.74%	56.37%	54.36%	56.59%	55.23%
S.T. Liabilities Ratio 1	ST Liabilities / Total Assets	33.88%	37.07%	34.01%	36.15%	34.85%
S.T. Liabilities Ratio 2	ST Liabilities / Total Liabilities	73.74%	74.22%	73.73%	74.13%	73.89%
S.T. Liabilities Ratio 3	Short Term Bank Loans / S.T. Liabilities	28.49%	38.95%	28.24%	37.02%	31.67%
Inventory Turnover Ratio	Cost of Goods Sold / Inventory	4.88	6.52	4.58	6.62	5.38
Receivables Turnover Ratio	Net Sales / (ST Trade Receivables + Long Term Trade Receivables)	15.18	5.04	9.13	16.71	12.09
Work. Cap. Turn. Ratio	. Net Sales / Current Assets	1.61	1.45	1.51	1.64	1.56
Net Work. Cap. Turn. Ratio	Net Sales / (Current Assets - Short Term Liabilities)	2.57	1.01	2.02	2.20	2.09

TABLE 4. RATIO AVERAGES FOR 45 ISE TRADED COMPANIES

Source: All the information in the table is based on the data downloaded from ISE web site. Note: * - End of the second quarter; ** - From the beginning of the third quarter.

Sectors	2004 -	2008 -	2004 -	2007** -	All
	2007	2009	2007*	2009	Years'
	Average	Average	Average	Average	Average
CURRENT RATIO (perce	entages)				
Food, beverages and tobacco	123.80	110.08	122.82	114.66	119.62
Textile, Wearing Apparel and Leather	198.82	227.92	200.68	218.56	207.68
Manufacture of Wood, Products of Wood & Furniture	334.55	417.17	314.43	430.10	359.69
Paper and Paper Products, Printing & Reproduction of Recorded	178.45	159.67	177.30	165.62	172.73
Media					
Chemicals, Petroleum Products, Rubber and Plastic Products	224.52	218.46	217.58	230.60	222.68
Non-metallic Mineral Products	203.15	176.75	209.12	173.32	195.11
Basic Metals	301.97	333.86	297.91	333.09	311.68
Fabricated Metal Products	146.35	130.04	148.42	130.43	141.38
Other Manufacturing	242.29	261.59	235.16	268.40	248.17
LIQUIDITY RATIO (perce	entages)				
Food, beverages and tobacco	79.15	70.02	78.86	72.50	76.37
Textile, Wearing Apparel and Leather	130.51	153.46	131.62	146.62	137.49
Manufacture of Wood, Products of Wood & Furniture	226.22	245.09	215.61	257.41	231.96
Paper and Paper Products, Printing & Reproduction of Recorded	124.74	114.45	123.69	118.36	121.61
Media					
Chemicals, Petroleum Products, Rubber and Plastic Products	156.33	154.53	149.95	164.85	155.78
Non-metallic Mineral Products	133.34	100.73	138.69	99.66	123.41
Basic Metals	193.72	217.64	192.39	214.39	201.00
Fabricated Metal Products	100.22	89.24	102.04	88.84	96.88
Other Manufacturing	129.54	156.58	129.75	150.25	137.77
CASH RATIO (percent	ages)				
Food, beverages and tobacco	13.57	12.85	13.76	12.71	13.35
Textile, Wearing Apparel and Leather	29.61	26.77	32.00	23.69	28.75
Manufacture of Wood, Products of Wood & Furniture	286.28	71.07	317.22	70.77	220.78
Paper and Paper Products, Printing & Reproduction of	23.85	27.49	24.34	25.91	24.96
Recorded Media					
Chemicals, Petroleum Products, Rubber and Plastic Products	49.06	49.60	47.30	52.21	49.22
Non-metallic Mineral Products	35.79	19.41	38.75	18.44	30.80
Basic Metals	41.90	59.48	42.73	54.29	47.25
Fabricated Metal Products	21.88	14.88	22.97	14.74	19.75
Other Manufacturing	22.45	22.47	20.77	25.08	22.46
INVENTORY / CURRENT ASSET	S (percer	ntages)			
Food, beverages and tobacco	34.86	32.39	34.86	32.93	34.11
Textile, Wearing Apparel and Leather	33.92	29.27	34.42	29.52	32.50
Manufacture of Wood, Products of Wood & Furniture	38.46	48.58	38.08	46.93	41.54
Paper and Paper Products, Printing & Reproduction of Recorded	28.64	23.66	28.60	24.83	27.13
Media					
Chemicals, Petroleum Products, Rubber and Plastic Products	26.39	23.57	26.43	24.13	25.53
Non-metallic Mineral Products	35.28	40.05	34.83	39.69	36.73
Basic Metals	33.51	30.73	33.37	31.55	32.66
Fabricated Metal Products	28.32	24.69	28.03	25.94	27.21
Other Manufacturing	43.96	26.25	42.95	31.76	38.57
SHORT TERM RECEIVABLES / CURREN					
Food, beverages and tobacco	52.10	47.41	51.74	49.01	50.67
Textile, Wearing Apparel and Leather	50.05	58.34	48.62	58.72	52.57
Manufacture of Wood, Products of Wood & Furniture	41.97	34.59	41.58	36.84	39.72
Paper and Paper Products, Printing & Reproduction of	61.16	56.11	61.36	56.93	59.63
Recorded Media					
Chemicals, Petroleum Products, Rubber and Plastic Products	50.38	46.73	50.38	47.54	49.27

TABLE 5. THE SECTOR SPECIFIC AVERAGES OF RATIOS FOR THE DEFINED PERI	ODC
TABLE 5. THE SECTOR SPECIFIC AVERAGES OF RATIOS FOR THE DEFINED FERM	003

Sectors 2004 - 2008 - 2004 - 2007 - 2009 Years' - Alt Nor-metallic Mineral Products 46.24 - 46.70 - 45.84 - 47.22 - 46.38 Basic Metals 48.41 - 48.70 - 48.54 - 47.22 - 46.38 Fabricated Metal Products 53.99 - 55.44 - 55.88 - 55.29 - 54.43 Other Manufacturing 46.69 - 66.46 - 47.90 - 60.16 - 52.71 Food, beverages and tobaco 44.77 - 44.09 - 43.01 - 46.59 - 44.57 Manufacture of Wood, Products of Wood & Furniture 64.33 - 68.37 - 62.58 - 65.48 Manufacture of Wood, Products of Wood & Furniture 64.77 - 60.38 - 65.25 - 60.59 - 63.43 Manufacture of Wood, Products, Printing & Reproduction of 38.94 - 30.35 - 39.6 - 73.0 - 92.48 - 20.59 - 74.83 Manufacture of Wood, Products, Rubber and Plastic Products 47.53 - 49.5 - 47.20 - 49.92 - 48.26 Other Manufacturing 67.72 - 66.36 - 70.30 - 66.60 - 67.39 Other Manufacturing 67.72 - 66.36 - 70.39 - 66.60 - 67.39 Other Manufacturing 77.75 - 82.63 - 70.89 - 81.55 - 75.66 Stood 38.15 - 55.60 - 55.60 - 67.39 Other Manufacturing 77.71.75 - 82.63 - 70.89 - 81.55 - 75.66 Cod, Beverages and Tobacco 38.15 - 55.60 - 67.39 Other Manufacturing 67.71 - 77.75 - 82.63 - 70.89 - 81.55 - 75.66 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th></t<>						
Non-metallic Mineral Products 46.24 46.70 45.84 47.22 46.38 Basic Metals 46.41 48.70 48.34 47.27 48.39 Other Manufacturing 46.69 66.64 47.90 60.18 52.71 CURRENT ASSETS / TOTAL ASSETS (percentages) 700 beverages and tobacco 44.77 44.09 43.01 46.99 44.57 Textlie, Wearing Apparel and Leather 63.33 68.37 68.37 66.37 56.48 75.44 89.55 81.43 700 64.27 64.87 Manufacture of Wood, Products of Wood & Furniture 64.77 60.36 65.25 60.59 64.31 Mom-metalic Mineral Products, Rubber and Plastic Products 47.53 49.95 47.20 49.28 Other Manufacturing Tintrastic Products 67.72 66.63 66.60 67.39 Dither Manufacturing Tintrastic Products 67.72 66.63 67.90 65.25 Food, Beverages and Tobacco 77.72 65.62 31.71 53.34 66.60 77.33	Sectors	2004 -	2008 -	2004 -	2007** -	All
Non-metallic Mineral Products 46.24 46.70 45.84 47.22 46.35 Basic Metals 48.41 48.70 48.34 48.70 48.34 48.70 48.34 48.70 48.34 48.70 48.34 48.75 48.50 Cher Manufacturing 46.69 66.46 47.90 60.18 52.71 CURRENT ASSETS / TOTAL ASSETS / percentages) Food, beverages and tobacco 44.77 44.09 43.01 46.99 44.57 Texilie, Wearing Apparel and Leather 63.33 68.37 62.25 60.25 63.43 Paper and Paper Products, Printing & Reproduction of 38.94 93.95 39.16 38.90 39.06 Recorded Media Chernicals, Petroleum Products 47.73 50.52 47.20 49.92 48.26 Non-metallic Mineral Products 67.72 66.63 67.39 016+ 45.17 50.16 42.2 46.71 53.36 46.47 30.86 40.27 46.23 Food, Beverages and Tobacco 38.15 45.47 38.60		2007	2009	2007*	2009	Years'
Basic Metals 48.41 48.70 48.27 48.27 48.27 Fabricated Metal Products 53.99 55.44 53.88 55.29 54.43 Other Manutacturing 46.69 66.66 47.90 60.18 52.71 Food, beverages and tobacco 44.77 44.09 43.01 46.99 44.57 Textle, Wearing Apparel and Leather 63.3 68.37 62.37 66.75 64.47 Manufacture of Wood, Products of Wood & Furniture 64.77 60.36 65.25 60.59 63.43 Mon-metallie Mineral Products, Rubber and Plastic Products 47.73 49.95 47.20 49.92 48.26 Mon-metallie Mineral Products 64.72 64.71 65.01 64.63 67.39 Other Manufacturing 71.75 82.63 70.89 81.5 40.28 Manufacture of Wood, Products of Wood & Furniture 63.28 30.64 67.25 31.71 53.49 Paper and Paparel 70.00 82.81 31.15 40.31 48.62 31.71 33.82		Average	Average	Average	Average	Average
Fabricated Metal Products 53.99 55.44 53.88 55.29 54.43 Other Manufacturing 46.69 66.46 47.90 60.18 52.71 Food, beverages and tobacco 44.77 44.09 43.01 46.99 44.57 Textile, Wearing Apparel and Leather 63.33 66.37 62.27 66.75 64.47 Manufacture of Wood, Products, Printing & Reproduction of 38.94 39.35 39.16 38.90 39.06 Recorded Media 64.72 64.73 65.05 64.67.1 74.03 66.60 67.39 Other Manufacturing 71.75 82.63 70.89 61.55 75.06 Short TERM LIABILITIES / TOTAL ASETS (percentages) 57.00 81.55 75.06 Food, Beverages and Tobacco 38.15 45.47 38.60 43.15 40.33 Manufacture of Wood, Products, Printing & Reproduction of 24.52 31.50 24.66 27.37 26.65 Recorded Media 27.75 27.24 82.30 26.66 7.59 24.66 2	Non-metallic Mineral Products	46.24	46.70	45.84	47.22	46.38
Other Manufacturing 46.69 66.46 47.70 60.18 52.71 CURRENT ASSETS / TOTAL ASSETS (percentages) Food, beverages and tobaco 44.77 44.09 43.01 46.99 44.57 Textlle, Wearing Apparel and Leather 63.33 68.37 62.37 68.75 64.87 Manufacture of Wood, Products of Wood & Furniture 64.77 60.36 65.25 60.59 63.43 Paper and Paper Products, Printing & Reproduction of 38.94 39.35 39.16 38.09 39.06 Chemicals, Petroleum Products, Rubber and Plastic Products 47.37 50.62 47.08 50.27 48.33 Basic Metals 64.72 64.63 67.90 66.60 67.39 Other Manufacturing 71.75 82.63 70.88 81.55 75.06 SHORT TERM LIABILITIES / TOTAL ASSETS (percentages) Food, Beverages and Tobacco 38.15 45.47 38.60 43.15 40.38 Textle, Wearing Apparel and Leather 34.69 39.73 33.62 40.27 36.62 Manufacturing 85.63	Basic Metals	48.41	48.70	48.34	48.75	48.50
Other Manufacturing 46.69 66.46 47.90 60.18 52.71 CURRENT ASSETS / TOTAL ASSETS (percentages)	Fabricated Metal Products	53.99	55.44	53.88	55.29	54.43
CURRENT ASSETS / TOTAL ASSETS (percentages) Food, beverages and tobacco 44.77 44.09 43.01 46.99 44.57 Textlie, Wearing Apparel and Leather 63.33 68.37 62.37 68.47 Manufacture of Wood, Products of Wood & Furniture 64.77 60.38 65.25 60.99 63.43 Paper and Paper Products, Printing & Reproduction of 38.94 39.35 33.16 38.90 39.06 Recorded Media Chemicals, Petroleum Products, Rubber and Plastic Products 47.33 49.95 47.20 49.92 48.26 Non-metallic Mineral Products 67.72 66.63 67.790 66.60 67.790 Other Manufacturing 71.75 82.83 70.89 81.55 75.06 Food, Beverages and Tobacco 38.15 45.47 38.60 43.15 40.27 Facile, Wearing Apparel and Leather 94.69 39.73 33.62 40.27 66.22 Manufacture of Wood, Products, Publer and Plastic Products 25.28 26.87 26.01 25.38 25.76 Non-metall		46.69	66.46			52.71
Food, beverages and tobacco 44.77 44.09 43.01 46.99 44.57 Textile, Wearing Apparel and Leather 63.33 68.37 62.37 68.75 64.87 Manufacture of Wood, Products of Wood & Furniture 64.77 60.36 65.25 60.59 63.34 Paper and Paper Products, Printing & Reproduction of 38.94 39.35 39.16 38.90 39.06 Recorded Media Chemicals, Petroleum Products, Rubber and Plastic Products 47.37 50.52 47.08 50.27 48.33 Basic Metals 64.72 64.71 65.01 64.26 64.71 Fabricated Metal Products 67.72 66.63 67.90 66.60 67.39 Other Manufacturing 71.75 82.63 70.89 81.55 75.06 Food, Beverages and Tobacco 38.15 45.47 38.60 43.15 40.33 Textle, Wearing Apparel and Leather 34.69 39.73 33.62 40.27 36.25 Manufacture of Wood, Products, Rubber and Plastic Products 25.28 26.687 26.01 <td>· · · · · · · · · · · · · · · · · · ·</td> <td>FTS (perce</td> <td></td> <td></td> <td></td> <td></td>	· · · · · · · · · · · · · · · · · · ·	FTS (perce				
Textlie, Wearing Apparel and Leather 63.33 68.37 62.37 68.75 64.87 Manufacture of Wood, Products of Wood & Furniture 64.77 60.36 65.25 60.39 63.43 Paper and Paper Products, Printing & Reproduction of 38.94 39.35 39.16 38.90 39.06 Chemicals, Petroleum Products, Rubber and Plastic Products 47.37 50.27 48.33 38.36 64.27 64.71 65.01 64.26 64.71 Fabricated Metal Products 67.72 66.63 67.90 66.60 67.39 Other Manufacturing 71.75 82.63 70.89 81.55 75.06 Food, Beverages and Tobacco 38.15 45.47 38.60 43.15 40.27 64.62 21.71 53.34 Paper and Paper Products, Funting & Reproduction of 24.52 31.50 24.66 29.73 26.65 Recorded Media 27.75 27.24 28.23 25.01 25.38 25.76 Non-metallic Mineral Products, Rubber and Plastic Products 25.28 26.87 26.01 25.38		u	0 /	43.01	46.99	44 57
Manufacture of Wood, Products of Wood & Furniture 64.77 60.36 65.25 60.59 63.43 Paper and Paper Products, Printing & Reproduction of 38.94 39.35 39.16 38.90 39.06 Recorded Media 47.53 49.95 47.20 49.92 48.26 Non-metallic Mineral Products 47.73 50.52 47.06 50.27 48.33 Basic Metals 64.72 64.71 65.01 64.26 64.71 Food, Beverages and Tobacco 38.15 45.47 38.60 43.15 75.06 Food, Beverages and Tobacco 38.15 45.47 38.60 40.27 36.22 Manufacture of Wood, Products of Wood & Furniture 63.28 30.64 67.25 31.71 53.34 Paper and Paper Products, Printing & Reproduction of 24.52 31.50 24.66 29.73 26.65 Recorded Media Chemicals, Petroleum Products 27.84 34.57 43.09 37.90 35.06 40.27 36.22 46.62 27.59 Fabricated Metal Products 77.57						
Paper and Paper Products, Printing & Reproduction of 38.94 39.35 39.16 38.90 39.06 Recorded Media Chemicals, Petroleum Products, Rubber and Plastic Products 47.37 50.52 47.08 50.27 48.33 Basic Metals 64.71 65.01 64.26 64.71 Fabricated Metal Products 67.72 66.63 67.79 66.63 67.79 66.63 67.79 66.63 67.79 66.63 67.79 66.60 67.39 71.75 82.63 70.89 81.55 75.06 Other Manufacturing 71.75 82.63 70.89 81.55 75.06 SHORT TERM LIABILITIES / TOTAL ASSETS (percentages) Food, Beverages and Tobacco 38.15 45.47 38.60 43.15 40.38 Paper and Paper Products, Printing & Reproduction of 24.52 31.50 24.66 29.73 26.65 Recorded Media 27.75 27.24 28.23 28.60 27.59 27.64 63.93 52.02 48.92 03.64 83.54 30.54 33.90 34.52 30						
Recorded Media 47.20 49.95 47.20 49.92 48.26 Chemicals, Petroleum Products, Rubber and Plastic Products 47.37 50.52 47.08 50.27 48.33 Basic Metals 64.72 64.71 65.01 64.26 64.71 Fabricated Metal Products 67.72 66.63 67.90 66.60 67.39 Other Manufacturing 71.75 82.63 70.89 81.55 75.06 SHORT TERM LIABILITIES / TOTAL ASSETS (percentages) Food, Beverages and Tobacco 38.15 45.47 38.60 43.15 43.27 36.22 Manufacture of Wood, Products of Wood & Furniture 63.28 20.64 67.25 31.71 53.34 Paper and Paper Products, Printing & Reproduction of 24.52 31.50 24.66 29.73 26.65 Recorded Media Chemicals, Petroleum Products 24.82 26.87 26.01 25.38 25.76 Non-metallic Mineral Products 77.97 77.24 28.23 26.65 26.67 26.01 25.38 27.59						
Chemicals, Petroleum Products, Rubber and Plastic Products 47.53 49.95 47.20 49.92 48.26 Non-metallic Mineral Products 47.37 50.52 47.08 50.27 48.33 Basic Metals 64.72 66.63 67.90 66.60 67.39 Other Manufacturing 71.75 82.63 70.89 81.55 75.06 SHORT TERM LIABILITIES / TOTAL ASSETS (percentages) 70.89 81.55 75.06 Food, Beverages and Tobacco 38.15 45.47 38.60 43.15 40.23 Manufacture of Wood, Products of Wood & Furniture 63.28 30.64 67.25 31.71 53.34 Paper and Paper Products, Rubber and Plastic Products 25.28 26.87 26.01 25.38 25.76 Non-metallic Mineral Products 22.82 26.87 26.01 25.38 25.76 Non-metallic Mineral Products 44.93 44.73 44.73 45.23 30.54 Chemicals, Petroleum Products 71.57 72.42 28.32 26.60 27.59 Fabricated M		38.94	39.35	39.16	38.90	39.06
Non-metallic Mineral Products 47.37 50.52 47.08 50.27 48.33 Basic Metals 64.72 64.71 65.01 64.26 64.71 Fabricated Metal Products 67.72 66.63 67.39 81.55 75.06 SHORT TERM LIABILITIES / TOTAL ASSETS (percentages) Food, Beverages and Tobacco 38.15 45.47 38.60 43.15 40.38 Textlie, Wearing Apparei and Leather 34.69 39.73 33.62 40.27 36.22 Manufacture of Wood, Products of Wood & Furniture 63.28 30.64 67.25 31.71 53.34 Paper and Paper Products, Printing & Reproduction of 24.52 31.50 24.66 29.73 26.65 Recorded Media 27.75 27.24 28.23 26.60 27.59 34.52 0.54 38.20 48.92 0.54 39.79 34.52 0.54 38.20 48.92 0.54 38.20 48.92 0.54 38.20 48.92 0.56 6.19 Non-metallic Mineral Products 47.41 52.02 48.92		17.50	10.05	17.00	10.00	
Basic Metals 64.72 64.71 65.01 64.26 64.71 Fabricated Metal Products 67.72 66.63 67.90 66.60 67.39 Other Manufacturing 71.75 82.63 70.89 81.55 75.06 SHORT TERM LIABILITIES / TOTAL ASSETS (percentages) 70.89 81.55 75.06 Food, Beverages and Tobacco 38.15 45.47 38.60 43.15 40.38 Textile, Wearing Apparel and Leather 34.69 39.73 33.62 40.27 36.24 Manufacture of Wood, Products of Wood & Furniture 62.28 30.64 67.25 31.71 53.34 Paper and Paper Products, Printing & Reproduction of 24.52 31.50 24.66 29.73 26.65 Recorded Media 27.75 27.24 28.32 20.64 27.59 Fabricated Metal Products 24.62 34.93 27.90 34.52 30.54 Dher Manufacturing 35.37 74.62 67.49 73.14 69.70 Textile, Wearing Apparel and Leather 74.91						
Fabricated Metal Products 67.72 66.63 67.90 66.60 67.39 Other Manufacturing 71.75 82.63 70.89 81.55 75.06 Food, Beverages and Tobacco 38.15 45.47 38.60 43.15 40.38 Textile, Wearing Apparel and Leather 34.69 39.73 33.62 40.27 36.22 Manufacture of Wood, Products of Wood & Furniture 63.28 30.64 67.25 31.17 53.34 Paper and Paper Products, Printing & Reproduction of 24.52 31.50 24.66 29.73 26.65 Recorded Media 27.75 27.24 28.23 26.60 27.59 Fabricated Metal Products 47.41 52.36 44.69.3 37.20 48.92 Other Manufacturing 35.03 44.47 34.57 30.93 37.90 SHORT TERM LIABILITIES / TOTAL LIABILITIES (percentages) Food, beverages and tobacco 67.55 74.62 67.49 73.14 69.70 Textile, Wearing Apparel and Leather 74.91 79.11 74.15 79.30						
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SHORT TERM LIABILITIES / TOTAL ASSETS (percentages) Food, Beverages and Tobacco 38.15 45.47 38.60 43.15 40.37 Textile, Wearing Apparel and Leather 34.69 39.73 33.62 40.27 36.22 Manufacture of Wood, Products of Wood & Furniture 62.28 30.64 67.25 31.71 53.34 Paper and Paper Products, Printing & Reproduction of 24.52 31.50 24.66 29.73 26.65 Recorded Media Chemicals, Petroleum Products, Rubber and Plastic Products 25.28 26.07 26.01 25.38 25.76 Non-metallic Mineral Products 27.75 27.24 28.23 26.60 27.59 Fabricated Metal Products 47.41 52.36 44.93 35.20 48.39 SHORT TERM LIABILITIES / TOTAL LIABILITIES (percentages) Food, beverages and tobacco 67.55 74.62 67.49 73.14 69.70 Textile, Wearing Apparel and Leather 74.91 79.11 74.15 79.36 66.91 Manufacture of Wood, Products of Wood & Furniture 86.72 88.34 <	Fabricated Metal Products	67.72	66.63	67.90	66.60	67.39
Food, Beverages and Tobacco 38.15 45.47 38.60 43.15 40.38 Textile, Wearing Apparel and Leather 34.69 39.73 33.62 40.27 36.22 Manufacture of Wood, Products of Wood & Furniture 63.28 30.64 67.25 31.71 53.34 Paper and Paper Products, Rubber and Plastic Products 25.28 26.87 26.01 25.38 25.76 Non-metallic Mineral Products 28.62 34.93 27.98 34.52 30.54 Basic Metals 27.75 27.24 28.23 26.60 27.59 Fabricated Metal Products 47.41 52.36 46.93 52.02 48.92 Other Manufacturing 35.03 44.47 34.57 43.05 7.14 69.70 Textile, Wearing Apparel and Leather 74.91 79.11 74.15 79.36 76.19 Manufacturing 86.72 88.34 66.69 88.03 87.22 Paper and Paper Products, Printing & Reproduction of 67.39 64.44 67.14 66.55 66.91	Other Manufacturing	71.75	82.63	70.89	81.55	75.06
Textile, Wearing Apparel and Leather 34.69 39.73 33.62 40.27 36.22 Manufacture of Wood, Products of Wood & Furniture 63.28 30.64 67.25 31.71 53.34 Paper and Paper Products, Printing & Reproduction of 24.52 31.50 24.66 29.73 26.65 Non-metallic Mineral Products, Rubber and Plastic Products 25.28 26.87 26.01 25.38 25.76 Non-metallic Mineral Products 27.75 27.24 28.23 26.60 27.59 Fabricated Metal Products 47.41 52.36 66.93 52.02 48.92 Other Manufacturing 35.03 44.47 34.57 43.09 37.90 SHORT TERM LIABILITIES / TOTAL LIABILITIES (percentages) Food, beverages and tobacco 67.55 74.62 67.49 73.14 69.70 Textlie, Wearing Apparel and Leather 74.91 79.11 74.15 65.55 66.91 Recorded Media Chemicals, Petroleum Products, Rubber and Plastic Products 71.56 74.30 71.66 72.27 69.14 71.10 <t< td=""><td>SHORT TERM LIABILITIES / TOTAL A</td><td>SSETS (p</td><td>ercentage</td><td>es)</td><td></td><td></td></t<>	SHORT TERM LIABILITIES / TOTAL A	SSETS (p	ercentage	es)		
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Manufacture of Wood, Products of Wood & Furniture 63.28 30.64 67.25 31.71 53.34 Paper and Paper Products, Printing & Reproduction of 24.52 31.50 24.66 29.73 26.65 Recorded Media 25.28 26.87 26.01 25.38 25.76 Non-metallic Mineral Products, Rubber and Plastic Products 28.62 34.93 27.98 34.52 30.04 Basic Metals 27.75 27.24 28.23 26.60 27.59 Fabricated Metal Products 47.41 52.36 46.93 52.02 48.92 Other Manufacturing 35.03 44.47 74.57 73.14 69.70 Textile, Wearing Apparel and Leather 74.51 79.36 76.19 Manufacture of Wood, Products of Wood & Furniture 86.78 88.08 87.22 Paper and Paper Products, Printing & Reproduction of 67.99 64.44 67.14 66.55 66.91 Recorded Media 70.12 69.66 70.45 69.24 69.98 72.27 69.14 71.04		34.69	39.73	33.62	40.27	36.22
Paper and Paper Products, Printing & Reproduction of Recorded Media 24.52 31.50 24.66 29.73 26.65 Chemicals, Petroleum Products, Rubber and Plastic Products 25.28 26.87 26.01 25.38 25.76 Non-metallic Mineral Products 28.62 34.93 27.98 34.52 30.54 Basic Metals 27.75 27.24 28.23 26.60 27.59 Fabricated Metal Products 47.41 52.36 46.93 52.02 48.92 Other Manufacturing 35.03 44.47 34.57 43.09 37.90 SHORT TERM LIABILITIES / TOTAL LIABILITIES (percentages) Food, beverages and tobacco 67.55 74.62 67.49 73.14 69.70 Textile, Wearing Apparel and Leather 74.91 79.11 74.15 79.36 76.19 Manufacture of Wood, Products, Printing & Reproduction of 67.99 64.44 67.14 66.59 66.91 Recorded Media 71.56 74.30 71.66 73.52 72.39 Non-metallic Mineral Products 71.88 69.13		63.28				
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Non-metallic Mineral Products 28.62 34.93 27.98 34.52 30.54 Basic Metals 27.75 27.24 28.23 26.60 27.59 Fabricated Metal Products 47.41 52.36 46.93 52.02 49.92 Other Manufacturing 35.03 44.47 34.57 43.09 37.90 SHORT TERM LIABILITIES / TOTAL LIABILITIES (percentages) Food, beverages and tobacco 67.55 74.62 67.49 73.14 69.70 Textile, Wearing Apparel and Leather 74.91 79.11 74.15 79.36 76.19 Manufacture of Wood, Products of Wood & Furniture 86.72 88.34 86.69 88.03 87.22 Paper and Paper Products, Rubber and Plastic Products 71.56 74.30 71.66 73.52 72.39 Non-metallic Mineral Products 71.88 69.13 72.27 69.14 71.04 Basic Metals 70.12 69.66 70.45 69.24 69.98 Fabricated Metal Products 81.09 75.65 81.54 76.15 79.		25.28	26.87	26.01	25.38	25.76
Basic Metals 27.75 27.24 28.23 26.60 27.59 Fabricated Metal Products 47.41 52.36 46.93 52.02 48.92 Other Manufacturing 36.03 44.47 34.57 43.09 37.90 SHORT TERM LIABILITIES / TOTAL LIABILITIES (percentages) Food, beverages and tobacco 67.55 74.62 67.49 73.14 69.70 Textile, Wearing Apparel and Leather 74.91 79.11 74.15 79.36 76.19 Manufacture of Wood, Products of Wood & Furniture 86.72 88.34 86.69 88.03 87.22 Paper and Paper Products, Rubber and Plastic Products 71.56 74.40 73.14 69.70 72.79 Non-metallic Mineral Products Ruber and Plastic Products 71.86 69.13 72.27 69.14 71.04 Basic Metals 70.12 69.66 70.45 69.24 69.98 Fabricated Metal Products 81.09 75.65 81.54 76.15 79.43 Other Manufacturing 86.59 88.37 87.11						
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Recorded Media Chemicals, Petroleum Products, Rubber and Plastic Products 71.56 74.30 71.66 73.52 72.39 Non-metallic Mineral Products 71.88 69.13 72.27 69.14 71.04 Basic Metals 70.12 69.66 70.45 69.24 69.98 Fabricated Metal Products 81.09 75.65 81.54 76.15 79.43 Other Manufacturing 86.59 88.37 87.11 87.18 87.14 SHORT TERM BANK LOANS / SHORT TERM LIABILITIES (percentages) Food, beverages and tobacco 35.53 41.91 37.01 38.20 37.47 Textile, Wearing Apparel and Leather 27.47 43.37 27.07 40.46 32.31 Manufacture of Wood, Products of Wood & Furniture 29.25 32.90 29.25 32.10 30.36 Paper and Paper Products, Rubber and Plastic Products 23.82 34.14 24.68 30.51 26.96 Non-metallic Mineral Products Ruber and Plastic Products 23.82 34.14 24.68 30.51 26.96		86.72	88.34	86.69	88.03	87.22
Chemicals, Petroleum Products, Rubber and Plastic Products 71.56 74.30 71.66 73.52 72.39 Non-metallic Mineral Products 71.88 69.13 72.27 69.14 71.04 Basic Metals 70.12 69.66 70.45 69.24 69.98 Fabricated Metal Products 81.09 75.65 81.54 76.15 79.43 Other Manufacturing 86.59 88.37 87.11 87.18 87.14 SHORT TERM BANK LOANS / SHORT TERM LIABILITIES (percentages) Food, beverages and tobacco 35.53 41.91 37.01 38.20 37.47 Textile, Wearing Apparel and Leather 27.47 43.37 27.07 40.46 32.31 Manufacture of Wood, Products of Wood & Furniture 29.25 32.90 29.25 32.10 30.36 Paper and Paper Products, Printing & Reproduction of 35.52 46.01 35.21 44.17 38.71 Recorded Media 21.45 30.07 21.76 24.07 Fabricated Metal Products 23.82 34.14 24.68 30.51 26.96	Paper and Paper Products, Printing & Reproduction of	67.99	64.44	67.14	66.55	66.91
Non-metallic Mineral Products 71.88 69.13 72.27 69.14 71.04 Basic Metals 70.12 69.66 70.45 69.24 69.98 Fabricated Metal Products 81.09 75.65 81.54 76.15 79.43 Other Manufacturing 86.59 88.37 87.11 87.18 87.14 SHORT TERM BANK LOANS / SHORT TERM LIABILITIES (percentages)	Recorded Media					
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Fabricated Metal Products 81.09 75.65 81.54 76.15 79.43 Other Manufacturing 86.59 88.37 87.11 87.18 87.14 SHORT TERM BANK LOANS / SHORT TERM LIABILITIES (percentages) Food, beverages and tobacco 35.53 41.91 37.01 38.20 37.47 Textile, Wearing Apparel and Leather 27.47 43.37 27.07 40.46 32.31 Manufacture of Wood, Products of Wood & Furniture 29.25 32.90 29.25 32.10 30.36 Paper and Paper Products, Printing & Reproduction of 35.52 46.01 35.21 44.17 38.71 Recorded Media	Non-metallic Mineral Products	71.88	69.13	72.27	69.14	71.04
Fabricated Metal Products 81.09 75.65 81.54 76.15 79.43 Other Manufacturing 86.59 88.37 87.11 87.18 87.14 SHORT TERM BANK LOANS / SHORT TERM LIABILITIES (percentages) Food, beverages and tobacco 35.53 41.91 37.01 38.20 37.47 Textile, Wearing Apparel and Leather 27.47 43.37 27.07 40.46 32.31 Manufacture of Wood, Products of Wood & Furniture 29.25 32.90 29.25 32.10 30.36 Paper and Paper Products, Printing & Reproduction of 35.52 46.01 35.21 44.17 38.71 Recorded Media	Basic Metals	70.12	69.66	70.45	69.24	69.98
Other Manufacturing 86.59 88.37 87.11 87.18 87.14 SHORT TERM BANK LOANS / SHORT TERM LIABILITIES (percentages) Food, beverages and tobacco 35.53 41.91 37.01 38.20 37.47 Textile, Wearing Apparel and Leather 27.47 43.37 27.07 40.46 32.31 Manufacture of Wood, Products of Wood & Furniture 29.25 32.90 29.25 32.10 30.36 Paper and Paper Products, Printing & Reproduction of 35.52 46.01 35.21 44.17 38.71 Recorded Media	Fabricated Metal Products	81.09			76.15	
SHORT TERM BANK LOANS / SHORT TERM LIABILITIES (percentages) Food, beverages and tobacco 35.53 41.91 37.01 38.20 37.47 Textile, Wearing Apparel and Leather 27.47 43.37 27.07 40.46 32.31 Manufacture of Wood, Products of Wood & Furniture 29.25 32.90 29.25 32.10 30.36 Paper and Paper Products, Printing & Reproduction of 35.52 46.01 35.21 44.17 38.71 Recorded Media						
Food, beverages and tobacco 35.53 41.91 37.01 38.20 37.47 Textile, Wearing Apparel and Leather 27.47 43.37 27.07 40.46 32.31 Manufacture of Wood, Products of Wood & Furniture 29.25 32.90 29.25 32.10 30.36 Paper and Paper Products, Printing & Reproduction of 35.52 46.01 35.21 44.17 38.71 Recorded Media						•••••
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Manufacture of Wood, Products of Wood & Furniture 29.25 32.90 29.25 32.10 30.36 Paper and Paper Products, Printing & Reproduction of 35.52 46.01 35.21 44.17 38.71 Recorded Media						
Paper and Paper Products, Printing & Reproduction of Recorded Media 35.52 46.01 35.21 44.17 38.71 Chemicals, Petroleum Products, Rubber and Plastic Products 23.82 34.14 24.68 30.51 26.96 Non-metallic Mineral Products 34.17 55.47 31.26 55.27 40.65 Basic Metals 21.45 30.07 21.76 27.67 24.07 Fabricated Metal Products 23.19 36.17 21.52 35.88 27.14 Other Manufacturing 25.28 19.66 25.49 20.58 23.57 INVENTORY TURNOVER RATE (times) Food, beverages and tobacco 5.56 8.07 5.24 8.01 6.32 Textile, Wearing Apparel and Leather 5.48 2.99 4.77 4.66 4.73 Manufacture of Wood, Products of Wood & Furniture 2.11 1.27 2.11 1.47 1.86 Paper and Paper Products, Printing & Reproduction of 5.60 5.76 5.29 6.20 5.65 Recorded Media Chemicals, Petroleum Prod	• • •					
Recorded Media Chemicals, Petroleum Products, Rubber and Plastic Products 23.82 34.14 24.68 30.51 26.96 Non-metallic Mineral Products 34.17 55.47 31.26 55.27 40.65 Basic Metals 21.45 30.07 21.76 27.67 24.07 Fabricated Metal Products 23.19 36.17 21.52 35.88 27.14 Other Manufacturing 25.28 19.66 25.49 20.58 23.57 INVENTORY TURNOVER RATE (times) Food, beverages and tobacco 5.56 8.07 5.24 8.01 6.32 Textile, Wearing Apparel and Leather 5.48 2.99 4.77 4.66 4.73 Manufacture of Wood, Products of Wood & Furniture 2.11 1.27 2.11 1.47 1.86 Paper and Paper Products, Printing & Reproduction of 5.60 5.76 5.29 6.20 5.65 Recorded Media Chemicals, Petroleum Products, Rubber and Plastic Products 6.29 5.60 5.96 6.27 6.08						
Chemicals, Petroleum Products, Rubber and Plastic Products 23.82 34.14 24.68 30.51 26.96 Non-metallic Mineral Products 34.17 55.47 31.26 55.27 40.65 Basic Metals 21.45 30.07 21.76 27.67 24.07 Fabricated Metal Products 23.19 36.17 21.52 35.88 27.14 Other Manufacturing 25.28 19.66 25.49 20.58 23.57 INVENTORY TURNOVER RATE (times) Food, beverages and tobacco 5.56 8.07 5.24 8.01 6.32 Textile, Wearing Apparel and Leather 5.48 2.99 4.77 4.66 4.73 Manufacture of Wood, Products of Wood & Furniture 2.11 1.27 2.11 1.47 1.86 Paper and Paper Products, Printing & Reproduction of 5.60 5.76 5.29 6.20 5.65 Recorded Media Chemicals, Petroleum Products, Rubber and Plastic Products 6.29 5.60 5.96 6.27 6.08		35.52	46.01	35.21	44.17	38.71
Non-metallic Mineral Products 34.17 55.47 31.26 55.27 40.65 Basic Metals 21.45 30.07 21.76 27.67 24.07 Fabricated Metal Products 23.19 36.17 21.52 35.88 27.14 Other Manufacturing 25.28 19.66 25.49 20.58 23.57 INVENTORY TURNOVER RATE (times) Food, beverages and tobacco 5.56 8.07 5.24 8.01 6.32 Textile, Wearing Apparel and Leather 5.48 2.99 4.77 4.66 4.73 Manufacture of Wood, Products of Wood & Furniture 2.11 1.27 2.11 1.47 1.86 Paper and Paper Products, Printing & Reproduction of 5.60 5.76 5.29 6.20 5.65 Recorded Media Chemicals, Petroleum Products, Rubber and Plastic Products 6.29 5.60 5.96 6.27 6.08				04.00	00.54	
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Other Manufacturing 25.28 19.66 25.49 20.58 23.57 INVENTORY TURNOVER RATE (times) Food, beverages and tobacco 5.56 8.07 5.24 8.01 6.32 Textile, Wearing Apparel and Leather 5.48 2.99 4.77 4.66 4.73 Manufacture of Wood, Products of Wood & Furniture 2.11 1.27 2.11 1.47 1.86 Paper and Paper Products, Printing & Reproduction of 5.60 5.76 5.29 6.20 5.65 Recorded Media Chemicals, Petroleum Products, Rubber and Plastic Products 6.29 5.60 5.96 6.27 6.08						
INVENTORY TURNOVER RATE (times) Food, beverages and tobacco 5.56 8.07 5.24 8.01 6.32 Textile, Wearing Apparel and Leather 5.48 2.99 4.77 4.66 4.73 Manufacture of Wood, Products of Wood & Furniture 2.11 1.27 2.11 1.47 1.86 Paper and Paper Products, Printing & Reproduction of 5.60 5.76 5.29 6.20 5.65 Recorded Media			36.17	21.52		
Food, beverages and tobacco5.568.075.248.016.32Textile, Wearing Apparel and Leather5.482.994.774.664.73Manufacture of Wood, Products of Wood & Furniture2.111.272.111.471.86Paper and Paper Products, Printing & Reproduction of5.605.765.296.205.65Recorded MediaChemicals, Petroleum Products, Rubber and Plastic Products6.295.605.966.276.08	Other Manufacturing	25.28	19.66	25.49	20.58	23.57
Textile, Wearing Apparel and Leather5.482.994.774.664.73Manufacture of Wood, Products of Wood & Furniture2.111.272.111.471.86Paper and Paper Products, Printing & Reproduction of5.605.765.296.205.65Recorded MediaChemicals, Petroleum Products, Rubber and Plastic Products6.295.605.966.276.08	INVENTORY TURNOVER R	ATE (time	s)			
Manufacture of Wood, Products of Wood & Furniture2.111.272.111.471.86Paper and Paper Products, Printing & Reproduction of5.605.765.296.205.65Recorded MediaChemicals, Petroleum Products, Rubber and Plastic Products6.295.605.966.276.08	Food, beverages and tobacco	5.56	8.07	5.24	8.01	6.32
Manufacture of Wood, Products of Wood & Furniture2.111.272.111.471.86Paper and Paper Products, Printing & Reproduction of5.605.765.296.205.65Recorded MediaChemicals, Petroleum Products, Rubber and Plastic Products6.295.605.966.276.08	Textile, Wearing Apparel and Leather	5.48	2.99	4.77	4.66	4.73
Paper and Paper Products, Printing & Reproduction of 5.60 5.76 5.29 6.20 5.65 Recorded Media	· · · · ·	2.11	1.27	2.11	1.47	1.86
Recorded Media Chemicals, Petroleum Products, Rubber and Plastic Products 6.29 5.60 5.96 6.27 6.08						
Chemicals, Petroleum Products, Rubber and Plastic Products 6.29 5.60 5.96 6.27 6.08			-	-	-	
		6.29	5.60	5,96	6.27	6.08
		2.70	2.10	2.01	2.10	2.00

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Sectors	2004 -	2008 -	2004 -	2007** -	All
	2007	2009	2007*	2009	Years'
	Average	Average	Average		
Basic Metals	4.67	5.19	4.33	5.61	4.83
Fabricated Metal Products	4.01	3.99	3.84	4.26	4.00
Other Manufacturing	5.25	31.08	5.11	25.56	13.11
RECEIVABLES TURNOVER	RATE (tim	es)			
Food, beverages and tobacco	12.16	13.57	11.30	14.58	12.59
Textile, Wearing Apparel and Leather	3.24	2.10	3.14	2.50	2.89
Manufacture of Wood, Products of Wood & Furniture	2.62	2.53	2.59	2.60	2.59
Paper and Paper Products, Printing & Reproduction of	3.02	2.55	2.82	2.95	2.87
Recorded Media					
Chemicals, Petroleum Products, Rubber and Plastic Products	4.30	3.42	4.13	3.88	4.03
Non-metallic Mineral Products	30.35	11.11	26.75	20.98	24.50
Basic Metals	8.31	2.67	6.20	7.21	6.60
Fabricated Metal Products	3.55	2.23	3.33	2.87	3.15
Other Manufacturing	108.60	2.78	30.47	147.83	76.39
WORKING CAPITAL TURNOVE	ER RATE (times)			
Food, beverages and tobacco	2.35	2.99	2.22	3.04	2.54
Textile, Wearing Apparel and Leather	1.22	0.86	1.15	1.05	1.11
Manufacture of Wood, Products of Wood & Furniture	1.10	0.77	1.10	0.84	1.00
Paper and Paper Products, Printing & Reproduction of	1.59	1.37	1.50	1.57	1.52
Recorded Media					
Chemicals, Petroleum Products, Rubber and Plastic Products	1.85	1.32	1.77	1.57	1.69
Non-metallic Mineral Products	1.28	1.27	1.13	1.51	1.28
Basic Metals	1.12	0.89	1.05	1.05	1.05
Fabricated Metal Products	1.24	1.43	1.16	1.50	1.29
Other Manufacturing	2.63	1.56	2.42	2.14	2.31
NET WORKING CAPITAL TURNO	VER RATI	E (times)			
Food, beverages and tobacco	-1.50	4.76	-2.66	5.17	0.41
Textile, Wearing Apparel and Leather	3.05	2.80	2.77	3.29	2.97
Manufacture of Wood, Products of Wood & Furniture	2.39	1.63	1.95	2.48	2.16
Paper and Paper Products, Printing & Reproduction of	2.09	0.98	2.04	1.29	1.75
Recorded Media					
Chemicals, Petroleum Products, Rubber and Plastic Products	-0.10	8.26	-1.00	7.81	2.45
Non-metallic Mineral Products	5.87	-22.79	5.54	-15.91	-2.85
Basic Metals	2.25	2.09	2.14	2.29	2.20
Fabricated Metal Products	5.14	3.30	4.56	4.61	4.58
Other Manufacturing	7.08	6.56	6.06	8.27	6.92
Courses All the information in the table is based on the date day	سامم مام ما اس		a la		

Source: All the information in the table is based on the data downloaded from ISE web site.

Note: * - End of the second quarter; ** - From the beginning of the third quarter.

			Pa	ired Differen			t	df	Sig. (2-
		Mean	Std. Deviation	Std. Error Mean	Interva	nfidence al of the rence	_		tailed)
					Lower	Upper			
		mples Test	t Results (I.P	eriod - II.Pe					
Pair 1	Current Ratio (Before Crisis) - Current Ratio (After Crisis)	01352	.83427	.12437	26416	.23712	109	44	.914
Pair 2	Liquidity Ratio (Before Crisis) - Liquidity Ratio (After Crisis)	.00106	.68274	.10178	20405	.20618	.010	44	.992
Pair 3	Cash Ratio (Before Crisis) - Cash Ratio (After Crisis)	.101567	.747079	.111368	122880	.326015	.912	44	.367
Pair 4	Inventory Ratio (Before Crisis) - Inventory Ratio (After Crisis)	.02941	.10302	.01536	00155	.06036	1.915	44	.062
Pair 5	S.T. Receivables Ratio (Before Crisis) - S.T. Receivables Ratio (After Crisis)	00321	.13105	.01954	04259	.03616	165	44	.870
Pair 6	Current Assets Ratio (Before Crisis) - Current Assets Ratio (After Crisis)	01634	.09021	.01345	04344	.01076	-1.215	44	.231
Pair 7	S.T.Liabilities Ratio 1 (Before Crisis) - S.T.Liabilities Rate (After Crisis)	03196	.13546	.02019	07266	.00874	-1.583	44	.121
Pair 8	S.T.Liabilities Ratio 2 (Before Crisis) - S.T.Liabilities Ratio 2 (After Crisis)	00473	.11894	.01773	04046	.03101	267	44	.791
Pair 9	S.T.Liabilities Ratio 3 (Before Crisis) - S.T.Liabilities Ratio 3 (After Crisis) -	10464	.14996	.02235	14969	05958	-4.681	44	.000
Pair 10	Inventory Turnover Ratio (After Crisis) - Inventory Turnover Ratio (After Crisis) -	-1.64295	12.05646	1.79727	-5.26511	1.97921	914	44	.366
Pair 11	Receivables Turn. Ratio (After Crisis) - Receivables Turn. Ratio (After Crisis) -	10.13658	49.03029	7.30900	-4.59375	24.86690	1.387	44	.172
Pair 12	Work. Cap. Turn. Ratio (After Crisis) - Work. Cap. Turn. Ratio (After Crisis) -	.15494	1.12560	.16779	18323	.49310	.923	44	.361
Pair 13	Net Work. Cap. Turn. Ratio (After Crisis) - Net Work. Cap. Turn. Ratio (After Crisis) - Net Work. Cap. Turn. Ratio (After Crisis)	1.55701	21.30566	3.17606	-4.84392	7.95794	.490	44	.626
		Samples Be	esults (III.Per	iod - IV Peri	od)				
Pair 1	Current Ratio (Before Crisis) - Current Ratio (After Crisis)	06254	.82495	.12298	31038	.18530	509	44	.614
Pair 2	Liquidity Ratio (Before Crisis) - Liquidity Ratio (After Crisis)	02000	.65103	.09705	21559	.17559	206	44	.838
Pair 3	Cash Ratio (Before Crisis) - Cash Ratio (After Crisis)	.12772	.83782	.12489	12399	.37942	1.023	44	.312
Pair 4	Inventory Ratio (Before Crisis) - Inventory Ratio (After Crisis)	.01957	.09054	.01350	00763	.04677	1.450	44	.154
Pair 5	S.T. Receivables Ratio (Before Crisis) - S.T. Receivables Ratio (After Crisis)	00643	.12621	.01881	04435	.03149	342	44	.734
Pair 6	Current Assets Ratio (Before Crisis) - Current Assets Ratio (After Crisis)	02230	.09336	.01392	05034	.00575	-1.602	44	.116
Pair 7	S.T.Liabilities Ratio 1 (Before Crisis) - S.T.Liabilities Rate (After Crisis)	02135	.14044	.02094	06354	.02084	-1.020	44	.313
Pair 8	S.T.Liabilities Ratio 2 (Before Crisis) - S.T.Liabilities Ratio 2 (After Crisis)	00403	.12363	.01843	04118	.03311	219	44	.828
Pair 9	S.T.Liabilities Ratio 3 (Before Crisis) - S.T.Liabilities Ratio 3 (After Crisis)	08787	.14567	.02171	13164	04411	-4.047	44	.000
Pair 10	Inventory Turnover Ratio (After Crisis) - Inventory Turnover Ratio (After Crisis)	-2.04766	9.40632	1.40221	-4.87363	.77831	-1.460	44	.151
Pair 11	Receivables Turn. Ratio (Before Crisis) - Receivables Turn. Ratio (After Crisis)	-7.57791	52.68473	7.85378	-23.4062	8.25033	965	44	.340
Pair 12	Work. Cap. Turn. Ratio (Before Crisis) - Work. Cap. Turn. Ratio (After Crisis)	13478	.89501	.13342	40367	.13411	-1.010	44	.318
Pair 13	Net Work. Cap. Turn. Ratio (Before Crisis) -	17989	17.77344	2.64951	-5.51963	5.15984	068	44	.946

TABLE 6. PAIRED SAMPLES T-TEST RESULTS

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Net Work. Cap. Turn. Ratio (After Crisis)

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	Paired Sample	es Results	1						
			Pa	ired Differen	ces		t	df	Sig. (2-
		Mean	Std. Deviation	Std. Error Mean	Interva	onfidence al of the erence	_		tailed)
					Lower	Upper			
Pair 1	Current Ratio (Before Crisis) - Current Ratio (After Crisis)	.02724	1.05326	.15701	28919	.34367	.174	44	.863
Pair 2	Liquidity Ratio (Before Crisis) - Liquidity Ratio (After Crisis)	02227	.89276	.13308	29048	.24595	167	44	.868
Pair 3	Cash Ratio (Before Crisis) - Cash Ratio (After Crisis)	12814	.52694	.07855	28645	.03017	-1.631	44	.110
Pair 4	Inventory Ratio (Before Crisis) - Inventory Ratio (After Crisis)	.03830	.11176	.01666	.00473	.07188	2.299	44	.026
Pair 5	S.T. Receivables Ratio (Before Crisis) - S.T. Receivables Ratio (After Crisis)	.02982	.15763	.02350	01754	.07718	1.269	44	.211
Pair 6	Current Assets Ratio (Before Crisis) - Current Assets Ratio (After Crisis)	.00761	.13607	.02028	03327	.04849	.375	44	.709
Pair 7	S.T.Liabilities Ratio 1 (Before Crisis) - S.T.Liabilities Rate (After Crisis)	04330	.10854	.01618	07591	01069	-2.676	44	.010
Pair 8	S.T.Liabilities Ratio 2 (Before Crisis) - S.T.Liabilities Ratio 2 (After Crisis)	.03363	.31875	.04752	06213	.12939	.708	44	.483
Pair 9	S.T.Liabilities Ratio 3 (Before Crisis) - S.T.Liabilities Ratio 3 (After Crisis)	08787	.18751	.02795	14420	03153	-3.143	44	.003
Pair 10	Inventory Turnover Ratio (Before Crisis) - Inventory Turnover Ratio (After Crisis)	-3.03448	21.44668	3.19708	-9.47777	3.40882	949	44	.348
Pair 11	Receivables Turn. Ratio (Before Crisis) - Receivables Turn. Ratio (After Crisis)	56.05895	310.22585	46.24574	-37.1432	149.26112	1.212	44	.232
Pair12	Work. Cap. Turn. Ratio (Before Crisis) - Work. Cap. Turn. Ratio (After Crisis)	.38033	1.14030	.16999	.03774	.72291	2.237	44	.030
Pair 13	Net Work. Cap. Turn. Ratio (Before Crisis) - Net Work. Cap. Tur Ratio (After Crisis)	8.09760	34.69883	5.17260	-2.32709	18.52228	1.565	44	.125

	Test Otstistics				
(I.Period - II.Period)	Test Statistics				
	Mann-	Wilcoxon W	Z	Significance	
	Whitney U			(2-tailed)	
Current Ratio	883.000	1918.000	-1.045	0.296	
Liquidity Ratio	910.000	1945.000	-0.827	0.408	
Cash Ratio	952.000	1987.000	-0.488	0.625	
Inventory Ratio	874.000	1909.000	-1.118	0.264	
S.T. Receivables Ratio	1011.000	2046.000	-0.012	0.990	
Current Assets Ratio	963.000	1998.000	-0.399	0.690	
S.T.Liabilities Ratio 1	890.000	1925.000	-0.989	0.323	
S.T.Liabilities Ratio 2	973.000	2008.000	-0.319	0.750	
S.T.Liabilities Ratio 3	715.000	1750.000	-2.401	0.016	
Inventory Turnover Ratio	897.000	1932.000	-0.932	0.351	
Receivables Turn. Ratio	656.000	1691.000	-2.877	0.004	
Work. Cap. Turn Ratio	699.000	1734.000	-2.530	0.011	
Net Work. Cap. Tur Ratio	865.000	1900.000	-1.190	0.234	

TABLE 7. MANN - WHITNEY U-TEST RESULTS

(III.Period - IV.Period)

Current Ratio	917.000	1952.000	-0.771	0.441
Liquidity Ratio	944.000	1979.000	-0.553	0.580
Cash Ratio	982.000	2017.000	-0.246	0.806
Inventory Ratio	928.000	1963.000	-0.682	0.495
S.T. Receivables Ratio	985.000	2020.000	-0.222	0.824
Current Assets Ratio	953.000	1988.000	-0.480	0.631
S.T.Liabilities Ratio 1	919.000	1954.000	-0.755	0.451
S.T.Liabilities Ratio 2	974.000	2009.000	-0.311	0.756
S.T.Liabilities Ratio 3	750.000	1785.000	-2.118	0.034
Inventory Turnover Ratio	973.000	2008.000	-0.319	0.750
Receivables Turn. Ratio	946.000	1981.000	-0.537	0.592
Work. Cap. Turn Ratio	977.000	2012.000	-0.286	0.775
Net Work. Cap. Tur Ratio	981.000	2016.000	-0.254	0.799

2007 Q4 - 2008 Q4

Current Ratio	893.000	1928.000	-0.964	0.335
Liquidity Ratio	928.000	1963.000	-0.682	0.495
Cash Ratio	948.000	1983.000	-0.520	0.603
Inventory Ratio	822.000	1857.000	-1.537	0.124
S.T. Receivables Ratio	897.000	1932.000	-0.932	0.351
Current Assets Ratio	1005.000	2040.000	-0.061	0.952
S.T.Liabilities Ratio 1	898.000	1933.000	-0.924	0.355
S.T.Liabilities Ratio 2	1012.000	2047.000	-0.004	0.997
S.T.Liabilities Ratio 3	804.000	1839.000	-1.683	0.092
Inventory Turnover Ratio	1006.000	2041.000	-0.052	0.958
Receivables Turn. Ratio	844.000	1879.000	-1.360	0.174
Work. Cap. Turn Ratio	877.000	1912.000	-1.093	0.274
Net Work. Cap. Tur Ratio	803.000	1838.000	-1.691	0.091