December 2021

Vol. 16, No. 1, ISSN : 0975-7775

COMMERCE TODAY

(A Blind Peer Reviewed Refereed Annual Journal)



Faculty of Commerce

Shri Jai Narain Misra Post Graduate College (K.K.C.) (Accredited Grade 'A' by NAAC)

> An Associated College of University of Lucknow, Lucknow, Uttar Pradesh, India (www.jnpg.org.in)

Shri JNMPG College COMMERCE TOD AY A Blind Peer Reviewed Refereed Annual Journal Vol. 16, No. 1 (Dec. 2021), JSSN: 0975-7775

Contents

t,	Transform ation of Agriculture Sector Through Social Entrepreneurship: A Solution to Global Food Crisis Dr. Madan Lal, Ramesh Kumar	1-9
2,	Cross-Cultural Diversity and its Effect on Global Scenario Dr. Anuranjita Dixit	10-17
3.	Determinants of Market Participation: A case study of Smallholder farmers in cabbage production of Arunachal Pradesh Dr. Chandan Das	18-24
4.	A Study in The Hindrances, Prospects and Government Promotions in Context of Rural Enterprises in India Dr Abhishek Kumar, Ashish Gupta	25-32
5.	Consumer Buying Behaviour Towards Cars in Udumalpet Taluk Dr. V. Simi, Dr. A.S. Vijay Anand	33-39
6.	A Study on Capital Structure of Ntpc- A Descriptive Analysis Dr. Rajeev Shukla, Rishabh Kumar	40-46
7.	Neobanking in India: Opportunities and Challenges from Customer Perspective Kavya Shabu, Dr. R. Vasanthagopal	47-52
8.	Machine Learning Applications in Human Resource Management: Adoption and Technical opportunities Dr Munshi Ram, Champak Doley	53-59
9.	Comparative Performance Evaluation of Direct vs Regular Scheme of Large Cap Mutual Funds Dr. Vikas Kumar, Vivek	60-78
10.	Precarity, Acceleration and Boost of The 'gig Economy' in the Covid-19 Pandemic- An Analysis of The Transitional Trends Towards the 'freelance' Economy Dr. Ritu Ghosh	79-83
11.	Problem of Paid News in India <i>Manoj Kumar Nana Rokade</i>	84-92
12.	A Study On Consumers' Perception About Online Shopping Towards Apparel Products With Special Reference To Tirupur City Dr. N. VELMATHI	93-100
13.	Financial Leverage in Textiles Industry: A Comparative Study Dr. Mukesh Kumar Verma, Prof. Shurveer S. Bhanawat	101-107
]4.	\$5 Trillion of Indian Economy: Challenges and Prospects Dr. Manoj Kumar	108-116
15.	Goods and Services Tax: An Overview on Insurance Sector Prof. S.K. Shukla, Dr. Sameer Kumar Tiwari, Mr. Rahul Mishra	117-123

Financial Leverage in Textiles Industry: A Comparative Study

Wukesh Kumar Verma', Prof. Shurveer S. Bhanawat²

pr. Mukesson, Department of ABST, University of Rajasthan, Jaipur (Raj.) asistant in the second second

ABSTRACT

publication info article history : Received 20 12 2021 Accepted 30.12.2021

Kerwords: Textile Industry, Financial leverage. Debt-Equity Ratio, EBITERT

Corresponding Author : vermanukesh3032@gmail.com

The present research paper has been made an attempt to measure, analyze and compare the financial leverage in terms of EBIT/EBT relationship and Debt-Equity ratio among Indian and Chinese Textiles industry. In order to achieve the objectives, ten companies from Indian textiles industry and ten companies from Chinese textiles industry were selected. Financial data of the selected companies have been used as secondary data to carry out the research and these data were retrieved from annual reports of respective companies and database software. One way ANOVA has been used to test the inter-firm and intra-firm result. Results of one-way ANOVA for interfirm comparison confirm that Indian textile companies have significant difference in D-E ratio but have insignificant difference in EBIT/EBT ratio. On the other hand, the financial leverage of Chinese companies was significantly different. To make comparison between two nations' textile industry t test has been used and results reveal that Indian and Chinese companies are significantly not different in respect of financial leverage. Study confirms that the industry is able to provide sufficient cover for interest expenses as well as for financial risk. Study concludes that most of the sample companies are using less debt-equity than to ideal ratio. Hence, textiles companies should employ more debts to attain the advantage of trading on equity.

1. INTRODUCTION

Business cannot be run without arranging funds. Funds are not only required for establishment only, ^{but for} expansion, diversification, and other ^{purposes} also. A choice has to be made for arranging these funds from various sources. These sources ^{may be broadly classified into two groups – owners'} finds and outsiders' funds. Generally short-term hnance sources are excluded from sources of funds. Debt, preference shares, equity shares and retained tamings are very common sources of funds. Debt and preference shares are fixed charge bearing ^{sources} of funds and equity shares and retained ^{tamings} are variable charge bearing source of

funds. When both of these sources are used in combination, firm is said to be leveraged. Companies with debt funds in their capital structure are said to be financially leveraged. Use of debt funds involves funds bearing fixed charges in the form of interest and that interest is deductible for tax purpose. Financial leverage is measured as EBIT/EBT relationship, Debt/Equity ratio, Debt Ratio, Equity Ratio, Interest Coverage Ratio, etc. The present study measures financial leverage in terms of first two.

Indian textile industry is one of the oldest industries in the Indian economy, dating back to several countries. The industry is extremely varied, with

hand-spun and hand-woven textiles sectors at one end of the spectrum, while the capital-intensive sophisticated mills sector on the other end. It contributes 2°_{\circ} to India's GDP, 12°_{\circ} to export revenue and holds 5°_{\circ} of the global textile trade.

Chinese textile industry is the largest and biggest cloth manufacturer and exporter of the world and contributes 7% to China's GDP. It has six main sub industry sectors. Cheap labour, easily availability of man power, area, government policy and large domestic market these reasons move global textile industry in China.

Both the countries are fast growing economy in the world and having a significant share of the textiles industry of the world. The selected industry what capital structure have and what financial risk bears, therefore, the present study attempts to make a comparison between these two.

2. REVIEW OF LITERATURE

Some important studies were reviewed and has been presented below-

(Ali, 2011) examined the determinants of leverage and found size, non-debt tax shields and tangibility were positively correlated with leverage ratio while growth and profitability negatively associated with leverage ratio.

(Azhagaiah & Sathia, 2012) studied about corporate leverage of 25 Indian textile companies listed under BSE and found significant growth rate in all three leverages.

(Chandani & Ahmed, 2021) observed the effect of corporate governance and financial leverage on the efficiency in terms of ROA and ROE of listed companies in Pakistan. Study found that corporate governance has positive correlation with a company's performance while FL and firm's performance does not have significant correlation. (Javeed & Tabassam, 2018) measured the impact of financial leverage on firm's financial condition. Ten years data of listed Pakistani textile companies were analyzed and found positive relationship between FL and financial position (ROA, Sales Growth and NPM) and negative relationship between FL and ROE.

3. NEED OF THE STUDY

Since India and China both are developing and fastgrowing economy in the Asia as well as in the world. Researcher could make effort to study the financial leverage in textile industry in a particular country but comparative study has not been carried out between these two countries' textile industry so far. So, there is a research gap exists and present study makes an effort to fulfill this gap.

4. OBJECTIVE OF THE STUDY

The present paper has following objectives:

- 1. To measure and analysis of financial leverage of Indian and Chinese textile companies.
- 2. To compare financial leverage of Indian and Chinese textile companies.

5. RESEARCH HYPOTHESES

Following hypotheses have been proposed for the study:

 H_{01} : There is no significant difference among financial leverage of Indian textile companies.

 H_{u_2} : There is no significant difference among financial leverage of Chinese textile companies.

 H_{us} : There is no significant difference among financial leverage of Indian and Chinese textile companies.

6. RESEARCH METHODOLOGY

To carry out the research following methodology

el: Detailed Rea	Indian Sample Companies	Chinese Sample Companies
Description	10	to the companies
la Size	5 financial year (2013-14 to 2017-18)	5 calendar year (2015 to 2019)
ple Size of of the study	Financial data as secondary data	Financial data as secondary data
nod to data	Annual reports off selected companies and ACE Equity Software	www.aastocks.com, www.gurufocus.com, www.reuters.com, www.stockopedia.com, and www.yahoofinance.com

iled Research Methodology

wheen adopted-

Indian companies and ten Chinese companies Indian companies and ten Chinese companies Indian companies from textile sector. Since Indian Indian companies data for five financial years (Chinese companies' data for five calendar years, Chinese companies' data for five calendar years, (Chinese companies' data for five calendar years, (Chinese companies) between Indian and Indian and Indian companies, financial data of Indian see sample companies were assumed to occur uniform order (assuming occur evenly every anth) and accordingly converted into financial tars. Hence four financial years could be formed from 2015-16 to 2018-19.

Statistical Tools: Mean and coefficient of variation have been used as descriptive statistics. To compare the difference in financial leverage of various companies and of various years, one-way ANOVA has been used. To compare the difference in financial leverage of selected companies of the two countries *t* test has been administered.

1. RESULTS AND DISCUSSION-

The study measures financial leverage in terms of EBIT/EBT relationship and Debt-Equity ratio.

Relationship between EBIT and EBT

This concept shows the relationship between Earnings before Interest and Tax (EBIT) and Earnings before Tax (EBT). The formula for financial leverage under this method is:

$$DFL = \frac{EBIT}{EBT} \quad or \quad \frac{EBIT}{EBIT - Interest}$$

Relationship between Debt and Equity

This ratio shows the relationship between company's total debt and total equity. Total debt includes both long term debt and those short-term debts which do not occur in the day-to-day operations of the company. Total equity includes paid up equity share capital and retained earnings. The formula for financial leverage under this method is: **Dabt**

$$DFL = \frac{Debt}{Equity}$$

Table 2 presents the financial leverage (EBIT-EBT relationship) of Indian sample companies of textile industry.

Company Name	2013-14	2014-15	2015-16	2016-17	2017- 18	Mean	C. V. (%)
Arvind Ltd.	1.87	1.94	1.88	1.75	1.50	1.79	9.89
Bombay Dyeing Ltd.	8.44	-2.21	-2.80	12.09	1.40	3.39	195.27
Garware Technical Fibres Ltd.	1.33	1.17	1.10	1.05	1.07	1.14	9.82
KPR Mill Ltd.	1.54	1.38	1.20	1.17	1.13	1.28	13.43
Raymond Ltd.	2.58	2.25	2.55	3.29	1.86	2.51	20.90
Rupa & Company Ltd.	1.24	1.23	1.18	1.09	1.06	1.16	6.98
Safari Industries (India) Ltd.	11.31	1.56	1.27	1.25	1.09	3.30	136.05
Swan Energy Ltd.	16.11	6.63	174.93	12.62	1.79	42.42	175.11
Trident Ltd.	1.79	2.23	1.63	1.32	1.30	1.65	23.04

Table 2: Financial Leverage (EBIT/EBT) of Indian Textile Industry

10 Welspun India Ltd	3.27	1.38	1.22	1.30	1.25	1.68	52.80	
Industry Average	4.95	1.76	18.42	3.69	1.34	6.03	64.34	
Inter-firm Comparison		ANOVA		1.469	P-Value		0.192	
Intra-firm Comparison ANOVA		OVA	F	0.813	P-Value		0.523	

(Source: Own computation)

Table 2 discloses that financial leverage (EBIT / EBT) ranges between 1 and 42 for different firms for different years. All the sample companies have reported a positive leverage for all the years. This tells that all the companies are operating at a level of EBIT which is higher than the financial break-even level. The highest leverage was observed for Swan Energy in the year 2015-16 as 174.9 and average leverage of the companies as 42.41. The average leverage for the industry comes to be 6.03 which is quite high looking at average leverage of other companies. This is due to inclusion of abnormally high leverage of Swan Energy Ltd.

the calculated value of F is 1.469 with a p value of 0.192. Thus, there is no significant difference among leverage ratio of different firms. Further, one way ANOVA for intra-firm comparison also revealed that the calculated value of F is 0.813 with a p value of 0.523. Thus, there is no significant difference among financial leverage over the years. So, it can be concluded that both the hypotheses of no significant difference among leverages of different firms and of different years could not be rejected at 5% level of significance.

Table 3 displays the leverage using debt-equity approach for Indian textile industry along with interfirm and intra-firm comparison.

One way ANOVA for inter-firm comparison shows

S. N.	Company Name	2013- 14	2014-15	2015-16	2016-17	2017-18	Mean	C. V. (%)
1	Arvind Ltd.	1.12	1.25	1.48	1.06	0.88	1.16	19.28
2	Bombay Dyeing Ltd.	8.78	3.95	7.60	2.18	2.56	5.01	59.87
3	Garware Technical Fibres Ltd.	0.23	0.14	0.12	0.19	0.26	0.19	29.76
4	KPR Mill Ltd.	1.02	0.75	1.08	0.50	0.36	0.74	42.51
5	Raymond Ltd.	0.97	1.04	1.23	1.28	1.53	1.21	18.08
6	Rupa & Company Ltd.	0.40	0.39	0.52	0.26	0.31	0.38	26.25
7	Safari Industries (India) Ltd.	4.40	0.43	0.64	0.41	0.32	1.24	142.6
8	Swan Energy Ltd.	1.31	1.64	1.90	0.89	0.98	1.34	31.89
9	Trident Ltd.	2.01	1.77	1.41	1.03	1.03	1.45	30.22
10	Welspun India Ltd.	2.73	2.15	1.65	1.38	1.26	1.83	33.09
Industry Average		2.30	1.35	1.76	0.92	0.95	1.46	43.36
	Inter-firm Comparison	ANC	ANOVA		6.909	P-Value		0.00
]	Intra-firm Comparison	ANC	OVA	F	1.271	P-V:	0.295	

Table 3: Financial Leverage (Debt-Equity Ratio) of Indian Textile Industry

(Source: Own computation)

It is found from the results of textile industry that the overall debt-equity ratio of this industry ranges between 0.12 and 8.78. The average leverage for the industry came to be 1.46 with a CV of 43.36%. The highest average debt equity ratio of 5.01 was

observed for Bombay Dyeing Ltd. the company also has the highest D-E ratio for the entire sample in the year 2013-14, followed by 7.60 in the year 2015-16. Garware Technical Fibres Ltd. has the least average D-E ratio of 0.19 and in almost all the years the und any is using less than half amount of debt than

where the substantially, which led to arge and hence after deducting interest from the substantially, which led to any substantially, which led to any substantially, which led to arge after deducting interest from the substantially.

Results of one-way ANOVA revealed that for interfirm comparison, the calculated F value is 6.909 with a p value of 0.00. Thus, there is significant difference among leverages of different firms. On the other hand, the calculated value of F for intrafirm comparison is 1.27 with a p value of 0.295. Thus, there is no significant difference among leverages of different years.

Table 4 presents the financial leverage (EBIT-EBT relationship) of Chinese sample companies of textile industry.

<u>S.</u>	Company Name	2015- 16	2016- 17	2017- 18	2018- 19	Mean	C. V. (%)
<u>N.</u>	Black Peony (Group) Co. Ltd.	1.23	1.19	1.21	1.14	1.19	3.28
2	Huafang Co. Ltd.	2.06	4.10	5.96	3.08	3.80	43.77
3	Huafu Fashion Co. Ltd.	1.46	1.27	1.22	1.25	1.30	8.28
4	Jiangsu Sunshine Co. Ltd.	1.47	1.55	1.85	1.39	1.56	12.98
5	Kam Hing International Holdings Ltd.	1.94	1.56	1.61	1.84	1.74	10.64
6	Lu Thai Textile Co. Ltd.	1.02	1.02	1.03	1.07	1.03	2.18
7	Shijiazhuang Changshan Beiming Tech. Co. Ltd.	1.18	1.62	1.72	2.10	1.65	23.01
8	Sunvim Group Co. Ltd.	1.20	1.12	1.18	1.20	1.18	2.98
9	Weiqiao Textile Co. Ltd.	1.44	1.41	1.50	1.35	1.43	4.39
10	Xinglong Holding (Group) Co. Ltd.	0.64	1.67	3.21	0.70	1.56	77.18
	Industry Average	1.36	1.65	2.05	1.51	1.64	17.98
	Inter-Firm Comparison	ANOVA	F	5.622	P Value		0.000
(6	Intra-Firm Comparison	ANOVA	F	0.947	P Va	lue	0.428

Table 4: Financial Leverage (EBIT/EBT) of Chinese Textile Industry

(Source: Own computation)

is found from the results that on an average the hinese textile industry is having a leverage of 1.64 the a low C. V. of 17.98%. Huafang Co. Ltd. is fleverage is increasing continuously till 2017-18. Was also found that the company is earning mount of interest till 2018-19. The C. V. is low he result of

 $\frac{h_e}{m_{parison}}$ reveals that the calculated F value is with a p value of 0.00. Thus, the null

hypothesis of no significant difference among various firms' financial leverage is rejected at 5% level of significance. One way ANOVA for Intrafirm comparison finds the calculated value of F is 0.947 with a p value of 0.428. Thus, there is no significant difference among financial leverage over the years and null hypothesis for intra-firm comparison is accepted.

Table 5 displays the leverage using debt-equity ratio for Chinese sample companies of textile industry along with inter-firm and intra-firm comparison.

S. N.	Company Name	2015- 16	2016-17	2017-18	2018-19	Mean	C. V. (%)
1	Black Peony (Group) Co. Ltd.	1.07	0.98	1.06	1.05	1.04	4.03
2	Huafang Co. Ltd.	1.57	1.51	1.05	1.05	1.29	21.76
3	Huafu Fashion Co. Ltd.	1.26	1.16	1.07	1.38	1.22	11.09
4	Jiangsu Sunshine Co. Ltd.	1.02	0.99	0.90	0.83	0.93	8.93
5	Kam Hing International Holdings Ltd.	0.94	0.94	0.91	1.02	0.95	4.90
6	Lu Thai Textile Co. Ltd.	0.13	0.15	0.19	0.25	0.18	30.62
7	Shijiazhuang Changshan Beiming Tech. Co. Ltd.	0.71	0.83	0.79	0.86	0.80	8.56
8	Sunvim Group Co. Ltd.	1.21	0.92	0.93	1.16	1.05	14.24
9	Weiqiao Textile Co. Ltd.	0.55	0.56	0.34	0.15	0.40	48.93
10	Xinglong Holding (Group) Co. Ltd.	0.55	0.55	0.67	0.70	0.62	12.97
	Industry Average	0.90	0.86	0.79	0.85	0.85	5.23
	Inter-Firm Comparison	ANOVA	F	27.537	P Value		0.000
	Intra-Firm Comparison	tra-Firm Comparison ANOVA F 0.141 P Value				lue	0.935

Table 5: Financial Leverage (Debt-Equity Ratio) of Chinese Textile Industry

(Source: Own computation)

It is found that average D-E ratio for the industry is 0.85 with a low C. V. of 5.23%. Huafang Co. Ltd. has the highest average leverage of 1.29 with a C. V. of 21.76%. The company showed continuous increasing trend in both total debt and equity but the equity has increased at a rate more than that of total debt. Lu Thai Textiles Co. Ltd. has the lowest average D-E ratio in the sample i.e. 0.18. The company also has the lowest D-E ratio for each of the years in the entire sample. This shows that the company has used low amount of debt as compared to equity. For remaining companies average D-E ratio has been less than 1. Also, the C. V. value is quite low indicating little fluctuations in D-E ratio over the years.

It is found from inter-firm comparison that the calculated F value is 27.537 with a P value of 0.00.

Thus, significant difference exists among variables firms' D-E ratio at 5% level of significance. Further, intra-firm comparison results reveal that the calculated value of F is 0.141 with a P value of 0.935. Thus, significant difference does not exist among the measures of D-E Ratio over the years.

Comparison among Financial Leverage of Indian and Chinese Sample Companies

In this section, comparison of financial leverage has been done between Indian and Chinese Sample Companies. There is a mismatch between years for which their data have been collected. Three common years could be found for both Indian and Chinese sample companies i.e. 2015-16, 2016-17 and 2017-18. Hence comparison has been made using these three years only.

Table 6: Comparison among Financial Leverage of Indian and Chinese Companies

Financial	Indian Sample Companies					Chinese Sample Companies						
Leverage	2015- 16	2016- 17	2017- 18	Mean	C. V. (%)	2015- 16	2016- 17	2017- 18	Mean	C. V. (%)	t	p Value
EBIT/EBT	18.42	3.69	1.34	7.82	118.37	1.36	1.65	2.05	1.69	20.45	1.15	0.370
D-E Ratio	1.76	0.92	0.95	1.21	39.63	0.90	0.86	0.79	0.85	6.39	1.29	0.325

(Source: Own Computation)

_{EBIT/E}BT Relationship Table 6 presents Textile sector in India has the Table of Field International and the high average of 7.82 and also has high average as is evident from the high of average its as is evident from the high value of C. V. fuctuations as is Indian textile sectorized by the sectorized by fuctuations. Indian textile sector is riskier than the (115^{0}) textile sector. High average 1 Chinese textile sector. High average leverage shows chinese the is a decrease in EBIT by 20%, then there that if there is a decrease in EBS has 15% of the there that it under the end of the end This poses a great financial risk on this sector to cover interest expenses. The hypothesis testing results showed that the calculated value of t is 1.147 with a p value of 0.370. Hence there is no significant difference among the financial leverage of Indian and Chinese sample companies.

Debt-Equity Ratio

Table 6 reveals that the average D-E ratio for Indian textile sector is 1.21, lower than the ideal ratio 2:1, higher than the average D-E ratio for Chinese textile sector. Chinese industry shows decreasing trend in D-E ratio over the years. Hypothesis testing results reveal that t statistics as 1.29 with a p value of 0.325 and accept the null hypothesis. It can be concluded that there is no significant difference among the Debt-Equity ratios of Indian and Chinese sample companies.

8. CONCLUSION

The present study attempts to measure and compare the financial leverage of textile companies. Only five years results of the selected companies have been used to fulfill the research gap. EBIT/EBT ratio shows higher fluctuations in Indian textile industry than Chinese industry which confirms great financial risk. The results of D-E ratio show that only one firm has higher ratio than the ideal ratio and nine firms were trading their businesses on thick equity. The study concludes that the Indian and Chinese textile companies are significantly not

different in respect of financial leverage.

REFERENCE

- 1. Ali, L. (2011). The Determinants of Leverage of the Listed-Textile Companies in India. In European Journal of Business and Management www.iiste.org ISSN (Vol. 3). Online. Retrieved from Online website: www.iiste.org
 - Azhagaiah, R., & Sathia, S. (2012). Corporate 2. Leverage and Financial Decision in the Indian Textile Industry. Managing Global Transition, 10(1), 87-114. Retrieved from https://www.researchgate.net/publication/2544 29138
 - 3. Chandani, S., & Ahmed, N. (2021). The effect of corporate governance and financial leverage on efficiency of Pakistan textile sector. Independent Journal of Management & Production, 12(1), 201-218. https://doi.org/10.14807/ijmp.v12i1.773
 - Javeed, L., & Tabassam, R. (2018). Financial Leverage and Financial Performance: 4. Empirical Evidence From Listed Textile Industry of Pakistan. International Journal of Accounting and Financial Reporting, 8(4), 457. https://doi.org/10.5296/ijafr.v8i4.

WEBSITES

www.aastocks.com www.gurufocus.com www.ibef.org www.reuters.com www.stockopedia.com www.yahoofinance.com