

ASSESSING THE ASSOCIATION BETWEEN THE BUSINESS FACTORS AND CHALLENGE FACTORS OF INDUTECH UNITS

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Abstract : The technical textile industry has its applications and usage which are completely different from its nature and adoption. The technical textile industry is called interchangeably as industrial textiles, functional textiles, performance textiles, engineering textiles, invisible textiles and hitech textiles. The technical textiles are grouped into various form which suits its application. The technical Textile are grouped into 12 sectors. In the Indutech segment, the product range includes conveyor belts, hoses, ropes, drive belts, computer ribbons, battery separators filters, filtration media, decasting cloth bolting cloth. Indutech textiles has been gradually gaining its importance in India but its contribution in the global technical textile is comparatively trivial.

IndexTerms - Indutech, Technical textile, Hitech, Applications.

I. INTRODUCTION

India always enhances its ultimate strength by learning from its weakness, and gets ready for shining. The innovation and learning never stops when it comes to manufacturing. India is always flourishing in terms of producing apparels and garments. The garment, apparel which are produced in India has unique demand all over the world. The industry has geared with more forms of textiles, of which the recent addition is Indutech. The innovation was coined as technical textiles, which has a huge market in European Union and United States of America. This technical textiles segment produces more products catering to various industries such as automobile, sports, environmental protection, healthcare, packaging, clothing and agriculture.

II. NEED FOR THE STUDY

The technical textiles have grown steadily over the years from 2007-08 to 2015-16. It has achieved 92,499 crores in the year 2015-16. Over the years, Gujarat, Maharashtra and Tamilnadu are the key clusters for production of technical textiles. In Tamilnadu, Chennai, Coimbatore and Tirupur and Erode Region have been identified as the cluster of Indutech. Thus many units which are involved in producing technical textiles which encounter many so many challenges. Thus the study has been intended to find the association between the business profile of the units and the challenges faced by the Indutech units.

III. SAMPLE AREA, SIZE AND DESIGN

For conducting the survey to assess the challenges faced by the Indutech units a 74 units have been selected and convenience sampling procedure has been adopted to derive the opinions. The area of the study is confined to Coimbatore, Tirupur and Erode.

Ho: There has been no significant difference in the business profile relating to the Challenges of Indutech textiles.

Table No: 1 Business profile Vs. factors relating to challenges of Indutech textiles

Business profile		SWOC – Weakness of Indutech			F	Sig.
		Mean	SD	No.		
Age of the concern	Less than 5 years	26.15	6.46	33	6.119	**
	6 - 10 Years	27.55	6.05	90		
	11 - 20 years	26.47	5.89	97		
	Above 20 years	27.17	5.57	42		
	TOTAL	26.91	5.96	262		
Nature of the concern	Sole proprietor	27.10	5.95	103	5.542	**
	Firm	26.69	5.89	96		
	Partnership	26.95	6.17	63		
	TOTAL	26.91	5.96	262		
Capital invested (in Rs.)	Less than 1 lakh	23.00	5.70	9	6.189	**
	1 - 5 lakhs	27.22	6.21	120		
	6 - 10 lakhs	26.79	5.70	106		
	More than 10 lakhs	27.33	5.73	27		
	TOTAL	26.91	5.96	262		

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Nature of investments	Loan from financial institutions	27.10	6.10	127	7.102	**
	Borrowed from friends& Relatives	26.86	6.09	81		
	Own Investments	26.54	5.49	54		
	TOTAL	26.91	5.96	262		
Nature of building	Own	26.08	6.69	36	5.554	**
	Lease	26.94	5.96	127		
	Rental	27.18	5.71	99		
	TOTAL	26.91	5.96	262		
Number of employees	Less than 50	27.83	6.44	54	6.001	**
	50 - 100	27.05	6.11	81		
	101 - 150	26.47	5.68	72		
	More than 150	26.38	5.65	55		
	TOTAL	26.91	5.96	262		
Nature of exports	Merchant exports	27.07	5.74	68	7.127	**
	Manufacturing exports	27.12	6.01	132		
	Third party	26.31	6.14	62		
	TOTAL	26.91	5.96	262		
Company turnover	Less than 1 crore	27.71	5.88	77	6.110	**
	1 crores - 2 crores	26.43	5.84	97		
	2 crores - 3 crores	26.81	6.16	74		
	More than 3 crores	26.43	6.30	14		
	Total	26.91	5.96	262		
Type of export	Export directly	26.85	5.67	110	5.090	**
	Export through International Traders	27.24	6.06	101		
	Export through International buyers	26.38	6.44	51		
	TOTAL	26.91	5.96	262		
Export through international traders	Job order	27.37	5.79	146	7.918	**
	Continuous	26.46	6.13	64		
	Batch	25.40	6.70	30		
	Repetitive assemble	27.27	5.48	22		
	TOTAL	26.91	5.96	262		

Source: Computed, ** 1% level of significance NS- Not significant

- The varying standard deviation with the high F – value of 6.119 has resulted in rejecting null hypothesis, and confirming that age of the concern as an independent variable has influenced the **challenges** of Indutech textile as a dependent factor.
- ANOVA result (F value 5.542) has revealed that there has been significant difference between the nature of concern and their '**Challenges**' thus rejecting the hypothesis. As there has been a significant difference at 1% level, it has been inferred that the nature of concern, as an independent variable has influenced '**Challenges**' of Indutech textile, as a dependent variables.
- The varying standard deviation with the high F – value of 6.189 has resulted in rejecting null hypothesis and confirming that capital invested as an independent variable has influenced the **challenges** of Indutech textile as a dependent factor.
- Due to difference in mean values and higher F value of 7.102, the null hypothesis has been rejected and the challenges of Indutech textile has differed significantly between the respondents of different nature of investment, at 1% level. Thus, the nature of investment as an independent variable has influenced '**challenges**' of Indutech textile, as a dependent factor.
- The varying standard deviation with the high F-value of 5.554 has results in rejecting null hypothesis. The respondents who are using rented building have had an influence on the **Challenges** of Indutech textiles.
- The varying standard deviation with the F-value of 6.001 has results in rejecting null hypothesis. Thus, the number of employees as an independent variable has influenced '**Challenges**' of Indutech textile, as a dependent factor.
- The varying standard deviation with the F-value of 7.127 has results in rejecting null hypothesis. Thus, the nature of exports as an independent variable has influenced '**Challenges**' of Indutech textile, as a dependent factor.
- The varying standard deviation with the F-value of 6.110 has results in rejecting null hypothesis. Thus, the company turnover as an independent variable has influenced '**Challenges**' of Indutech textile, as a dependent factor.
- The varying standard deviation with the F-value of 5.090 has results in rejecting null hypothesis. Thus, the type of export as an independent variable has influenced '**Challenges**' of Indutech textile, as a dependent factor.
- The varying standard deviation with the F-value of 7.918 has results in rejecting null hypothesis. Thus, type of business practices as an independent variable has influenced '**Challenges**' of Indutech textile, as a dependent factor.

IV. CONCLUSION

The growth of Indutech textiles is at a faster phase in the countries of Europe, China, Japan and United states of America stands the first in importing major products. The concept of this innovative textile group is upcoming in India. The areas of Tirupur, Coimbatore and Erode belt has shown keen interest in producing the products. The government (central and state) has to set up special economic zone and clusters for improving the manufacturers and manufacturing units in these areas. The government should create amenities for the increased production, by setting up industrial clusters like SIDCO, SIPCOT and CONCOR, so as the hazards of setting up an unit, establishing the unit with machineries, would become easy. Tax exemptions must be provided for a period of five years, so that the sector would fetch enough foreign exchange reserves for our country India.

REFERENCES

- [1] Kumar R, S. (2018). Indian Textile Industry: Opportunities, Challenges and Suggestions. Trends in Textile Engineering & Fashion Technology, 2(3), 1–5.
- [2] FarhanaIqbal. (2018). Basalt fibre has opened a new chapter in technical textiles. 4(5), 289–296.
- [3] Beer, M., Schrank, V., Gloy, Y. S., & Gries, T. (2016). Systematic development of technical textiles. IOP Conference Series: Materials Science and Engineering, 141(1), 0–8.

