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1	Identifying Factors to Indicate the Business Performance of Small
2	Scale Industries: Evidence from Sri Lanka
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7 Abstract

⁸ This paper was to identify underlying factors in a collected data set that represent to indicate

⁹ to the performance of small scale industries from Sri Lanka. The analysis based on the owner/ managers who responded to a questionnaire survey conducted on sample of small scale

¹⁰ managers who responded to a questionnaire survey conducted on sample of small scale ¹¹ industries in Vavuniya district of the Sri Lanka. Initially, exploratory factor analysis has

industries in Vavuniya district of the Sri Lanka. Initially, exploratory factor analysis has
 generated five factor solutions. In order to confirm reliability of factor, Cronbach?s alpha was

¹² generated five factor solutions. In order to confirm reliability of factor, Cronbach?s alpha w ¹³ used and finally, five factors were extracted with high reliability and named: Customer

¹⁴ Satisfaction with Managing Change, Growth at Business and Income Level, Growth in

¹⁵ Profitability, Growth in Turnover, Growth in Number of Employees. However, it is

¹⁶ recommended to test the overall validity (content/face/discriminant) of the factor structure

¹⁷ and to carry on confirmatory factor analysis to confirm the obtained factor structure with the

18 large set of data.

19

20 Index terms— performance indicators, factor analysis, small scale industries.

²¹ 1 Introduction

22 ri Lanka is an island country located in the Indian Ocean closer to the southern part of India. It has about 70% of its population living in the rural areas whose main income source is agriculture. With a human development 23 24 index of 93 out of 177 countries and a literacy rate of 90%, Sri Lanka is conducive to startup micro and small enterprises (MSEs) for socioeconomic development. The agriculture sector contributes to 12% of GDP of the 25 country (Central Bank of Sri Lanka, 2008), although 24.6% Research and development expenditure is spent 26 on agriculture research and development ??NSF, 2009). Sri Lanka's gross domestic product (GDP), in real 27 terms, grew by an impressive 8.3 per cent in 2011, the highest growth witnessed during the past six decades. 28 This is an unprecedented achievement as it was the first time that Sri Lanka realized economic growth of 8 29 per cent or above in two consecutive years in post-independence history. This high growth was underpinned by 30 the conducive macroeconomic environment, strong domestic demand, improved investor confidence, continued 31 expansion of infrastructure facilities and improved doing business environment amidst the fragile global economic 32 From the production side, the remarkable growth in Industry and Services sectors contributed significantly to 33 the growth while the Agriculture sector suffered a setback. 34

Small and Medium Enterprises (SMEs) play a crucial role in contributing to overall industrial production,
 employment generation and poverty reduction in developing countries (Arinaitwe, 2006).

The small and medium enterprise (SME) sector is well recognized for its contribution to employment, innovation and economic dynamism and is considered as an engine of growth and an essential part of a healthy economy. It provides the industrial leaders of the future, improves the competitive edge of the economy by maximizing the range of choice available through market provision and challenges the dominance of existing large industrial units, thereby forcing them to innovate. Small firms have been the chief source of creating new jobs in many countries. It would not be an exaggeration to mention that the overall health of the economy depends, to a large extent, on the health of the SME sector in a country.

According to the Central Bank of Sri Lanka (1998), the Cottage and Small Scale Industries (CSSI) sector plays 44 an important role in economic development through creation of employment opportunities, the mobilization 45 of domestic savings, poverty alleviation, income distribution, regional development, training of workers and 46 entrepreneurs, creating an economic environment in which large firms flourish and contribute to export earnings. 47 Having understood the positive impact of SMEs development and economic growth, successive Governments in 48 Sri Lanka have taken various steps to develop this vital sector (Gamage, 2000). Research has shown that in Sri 49 Lanka 68% of the small business fail within the first 2-5 years of operation. In the United States of America 50 the rate of failure is as high as 80%. In the European Economic Community Countries out of every 1000 small 51 businesses only will service for more than 10 years from the start (Mendis et al, 1999). Why do such a large 52 number of small firms fail each year? It is important to identify what are the factors indicating the performance 53 as well as success? How can we measure the performance as well as success? Therefore, the purpose of this 54 study is to examine, through an empirical investigation, factors that would indicate to the performance of small 55 industries. The data for the study were collected through the written questionnaire following direct personal 56 interviewing technique conducted on a sample of small scale industries in Sri Lanka. 57

II. $\mathbf{2}$ 58

3 Questionnaire Survey 59

For the questionnaire survey, a sample of 68 small scale industries was decided from the industries which were 60 registered before 2003 in Industries Department, District Secretariat Office, Vavuniya. According to the Survey 61 data of Industries Department, District Secretariat Office, Vavuniya, there are 127small scale industries were 62 functioning as at 31.12.2007. From the 127 industries 68 industries were selected as sample. 63

In addition to getting information about profiles of enterprise 20 questions asked to get information related to 64 performance indicators. Initially, thirty questionnaires were distributed with a view to pilot testing, confidentiality 65 of information assured to the respondents. Subjective measures were used to measure the organizational 66 performance in this study. Measurement of organizational performance using economic data is often difficult 67 with privately held firms, largely because the owners are the sole controllers of the information and are sensitive 68 about releasing it (Dess & Robinson, 1984). As well, the profitability of a small business is not considered a 69 reliable measure of performance, as the way in which profit is distributed will tend to vary with the taxation 70 obligations of the ownermanager, with the asset structure of the business (Gibson, 2002), and with the owners' 71

72 intention for the business (Davidsson, 1995; ??rueger, Reilly and Carsrud, 2000; ??ennedy and Drennan, 2002).

73 Using a modified instrument developed by the Gupta and Govintharajan, Dess and Robinson (1984) reported 74 strong and significant relationships between the subjective comparative assessments of the 5 year performance of 75 18 businesses by their top management against their similar businesses in their industries.

Therfore subjective measures were used to measure the organizational performance in this study. Subjective 76 measures which are perceptions collected from organizational members and stakeholders (Campbell, 1977). 77

Further many studies have shown that subjective measures reliably reflect objective performance (Covin and 78

Covin, 1990:Dess, Lumpkin and Covin, 1997:Wiklund, 1999; ??ahra, 1993: Bae and ??awler, 2000:Luo and Park, 79 2001; Peng and Luo, 2000). Satisfaction is fundamental measure of the perception of successful performance 80 (cited in Fox, 2005). 81

Using a 5-point Likert scale, respondents were asked to indicate the extent to which they fully satisfactory or 82 unsatisfactory with each item. The responses range from 1 (unsatisfactory) to 5 fully satisfactory. 83

In the selected sample 56 participants (53.54%) were responded, 5 entrepreneurs were not responded to the 84 survey. 7 industries had been dropped out from their function in the selected sample. According to the Survey 85 data of Industries Department, District Secretariat, Vavuniya 127small scale industries were functioning as at 86 87 31.12.2007. But after the survey of researcher identified there are 120 small scale industries are functioning in Vavuniya district and 7 had been closed from their function during the last two years period. The following 88 table presents population and sample details including drop out industries and number of non respondents from 89 respective industries of the survey. The following table presents population and sample details including drop 90 out industries and number of non respondents from respective industries of the survey. The sample was consisted 91

of 51 male (91.1%) and 05 female (8.9%) entrepreneurs. 92

III. Results of the Statistical Analysis 4 93

94 At the first stage, permission was taken from entrepreneurs to collect the data. Initially, thirty questionnaires 95 were distributed with a view to pilot testing, confidentiality of information assured to the respondents.

96 The approach to measuring Characteristics of Entrepreneurs and Industries Performance was the use of an instrument for capturing entrepreneurs' perceptions. To establish reliability and validity of the questionnaire, 97

pilot test was conducted with a convenience sample of entrepreneurs of small scale industries in Vavuniya district. 98

The Cronbach's alpha was used as part of the analysis because it has been a common method for assessing the 99

measure of reliability of entrepreneurship in organizations (Knight, 1997). Therefore reliability test was conducted 100 to check random errors. 101

The reliability coefficient of all dimensions of industrial performance were 0.843 which indicated the high reliability (Gliner and Morgan, 2003). Therefore, questionnaire was taken as an acceptable instrument to be administered.

As indicated above in this study, Questionnaire was tested by using factor analysis on SPSS 13.0. Regarding validity, Kasier -Meyer -Olkin (KMO) measure of Sampling Adequacy is a measure of whether or not the distribution of value is adequate for conducting Factor Analysis. As per KMO measure, a measure of >0.9 is marvelous, >0.8 is meritorious, >0.7 is middling, >0.6 is mediocre, >0.5 is miserable and <0.5 is unacceptable. A significance value <0.05 indicates that the data DO NOT produce an identity matrix and are thus appropriately multivariate normal and acceptable for Factor Analysis (George and Mallery, 2003).

Exploratory factor analysis is the statistical techniques used to investigate the underlying patterns or associations/ relationships for a large number of variables and to determine or not the information can be summarized in a smaller set of factors or components (Hair et al., 2006). Pallant (2010), Hair et al (2006) and Field (2010)'s guidance were followed to take up exploratory factor analysis.

A principal components analysis for items of industrial performance was performed. However, before using 115 the factor analysis, a number of initial tests were conducted to determine the suitability of our data for such an 116 analysis. Here Bartlett's test of sphericity and the Kaiser-Meyer-Olkin measure of sampling adequacy (George 117 and Mallery, 2003) were used. Both of these tests can be used to determine the factorability of the matrix as a 118 119 whole. If Bartlett's test of sphericity is large and significant, and if the Kaiser-Meyer-Olkin measure is greater than .5, then factorability is assumed. For this scale a measure of sampling adequacy value of .748 and a large 120 value of Bartlett's test of sphericity (108.878 and df = 21) at a high level of significance (p < .000) indicated that 121 a principal component analysis would be useful. The five factor solution suggested by the eigenvalues greater 122 than one criterion explained 68.80% of the variance in the data to again confirm that the factor analysis is valid. 123 All items loaded highly, with communalities of .484 or higher. 124

After being varimax rotated to obtain a simple structure the five-factor solution gave a clear factor structure. 125 Table 1 shows the results of the principal components analysis. Factor loadings were greater than .50 were 126 considered significant (Hair et al., 1995) and thus the larger the absolute size of the factor loading, the more 127 important the loading in interpreting the factor matrix. When the original 20 items were analyzed by the principal 128 component factor analysis with varimax rotation a five factor emerged. Here, two items were dropped from the 129 analysis because of their low loadings without significant and difficulty of interpretation which loadings were .457 130 in factor 1 and .437 in factor 5. Factor 2: This factor was represented by three items, was labeled growth in 131 profitability accounted for the amount of variance 12.51%. This factor comprised items representing Growth on 132 net profit over the past five years, improvement in ROI from the business for past five years, and improvement 133 in ROA from the business for past five years. 134

Factor 3. This factor was represented by four items, was named growth in business and income level accounted 135 for the amount of variance 12.36%. This factor included the items were satisfaction in business growth including 136 achievement of business goal, improvement in life standard after the business, growth in personal income from 137 the beginning of business, improvement in income level when comparing before and after the business. Factor 4: 138 This factor was represented by two items, was named growth in no. of employees and retaining key employees 139 accounted for the amount of variance 12.33%. Consisted items were increasing in no. of employees from the 140 beginning of business, ability of industries to keep the organization's best and most talented people. Factor 5: 141 This factor was represented by two items, was named growth in turnover/ sales accounted for the amount of 142 variance 10%. Factor items were growth in turnover/sales from the business over the past five years, growth in 143 turnover compared to the competitors over the past five years. The internal consistency of the items used to 144 measure each factor was calculated using Cronbach's alpha, which is the procedure of choice for investigating the 145 internal consistency of items using Likert-type scale (Walsh and Betz, 1995). Cronbach's alpha for each factor: 146 factor 1, factor 2, factor 3, and factor 4 and factor 5 were 0.870, 0.832, 0.714, 0.762 and 0.817 respectively which 147 suggests that of the items measured the first two and last factor had a high internal consistency (Cronbach's 148 alpha greater than 0.80) and third and fourth factor had moderate internal consistency. Therefore the results of 149 reliability analysis confirmed that consistency is at an acceptable level for each factor. 150

¹⁵¹ 5 IV. Relative Importance of Factors

Ranking of the above five factors in order of their importance, along with mean and standard deviation, is shown in Table 2. The importance of these factors, as perceived by the participants, has been ranked on the basis of their mean values. V.

155 6 Discussion

The results of the factor analysis show a set of five separately identifiable factors that have positive and significant impact on the performance of small scale industries in Vavuniya district. Although customer satisfactions with managing change (Factor 1), growth in business & income level (Factor 3) emerged as the first and second most highly loaded factors for the performance of their industries. Similarly, growth in profitability (Factor 2), growth in turnover (Factor 5), growth in no. of employees (Factor 4) have been perceived as third, fourth and 161 fifth important factors. The following discussion focuses on each of these five factors reported in the existing 162 literature as subjective measure of the organizational performance.

Factors influencing business/ venture performance have been extensively analyzed since the beginning the 163 1980s (Gartner 1985 ??Antoncic and Histrich, 2001), absolute growth items are the average annual growth in 164 number of employees in the last three years and the average annual growth in sales, in the last three years, 165 while relative growth item is growth in market share ?? Chandler and Hanks, 1993) in the last three years, 166 absolute profitability items are average annual return on sales (ROS), average return on assets (ROA), and 167 average annual return on equity (ROE), in the last three years, while relative profitability items are a subjective 168 measure of firm performance relative to competitors ?? Chandler and Hanks, 1993) and its extension (Antoncic 169 and ??istrich,2001,2004), the company's profitability in comparison to all competitors as well as to competitors 170 that are at about same age and stage of development, control variables included firm age, size, and industry. 171

Firm performance is a complex and multidimensional construct (Chandler and Hanks, 1993). Therefore, the use 172 of multiple indicators to gauge new venture performance has been recommended by several researchers ??Zahra, 173 Newbaum and EI-Hsgrassey, 2002). Sales growth rate was measured in the same manner as in several previous 174 studies ?? ??Wiklund and Shepherd, 2003); gathering and using knowledge (Lumpkin and Lichtenstein, 2005); 175 and managing change (Hage, 1999). An organizational performance construct was operationalized by Jawaorski 176 177 and Kohli (1993) with two judgmental questions. In their study, respondents were asked for their opinion of 178 the previous year's overall performance of their organization and their overall performance relative to leading 179 competitors. In this study also is going to follow above method to evaluate the organizational performance.

The goal approach directs the ownersmanagers to focus their attentions on the financial measures. These 180 measures include profits, revenues, returns on investment (ROI) (Smith, Bracker, and Miner 1987), returns on 181 sales (Kean et al. 1998), and returns on equity (Richard 2000; ??arney 1997) rather than the non-financial 182 measures. Financial measures are objective, simple and easy to understand and compute, but in most cases, they 183 suffer from being historical and are not readily available in the public domain. Inaccessibility, confidentiality 184 ??Covin and Slevin, 1989), completeness (Sapienza and Grimm 1997), accuracy (Brush and Wanderwerf 1992) 185 and timeliness (Sapienza, Smith, and Gannon 1988) of data make comparisons among the sectors challenging 186 and futile. Further, profits are subject to manipulations and interpretations. A possible way forward is to apply 187 the non-financial measures, though subjective in nature, as supplements to the financial measures ??Kunkel and 188 Hofer 1993; ??ovin and Slevin 1989; ??egley and Boyd 1987;Sandberg and Hofer 1987). The combinations of 189 these two measures help the owners-managers to gain a wider perspective on measuring and comparing their 190 performance, in particular the extent of effectiveness and efficiency in utilizing the resources, competitiveness 191 and readiness to face the external pressure including globalizations. 192

¹⁹³ 7 VI.

194 8 Conclusions

Through an empirical investigation, this study has identified five principal factors that are perceived to be major contributions to indicate the organizational performance. These factors in their order of importance are Customer satisfaction with managing change, Growth in business and income level, Growth in profitability, Growth in turnover, and Growth in number of employees.

However, it should be noted that the above conclusion should be treated with caution, as the results of this exploratory study stem from the perceptions of entrepreneurs who represent only a small sample of small scale industries in Vavuniya, Sri Lanka. In addition, the results of this study were subject to the limitations that all performance indicators which are indicate the small scale industries performance did not extracted from this study. Despite these imperfections, the study provides some useful insights to entrepreneurs and policy makers in involving the business activities on some factors that may be considered as important contributions to the performance of their small scale industries. ¹²

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Industries	Populati Sc lectello.		No.	IdentifiqaresentlySampl			
	(No. of	Samp	olRespo	omot	no. of	function	n in Rate
	Industr	dustries) dents		Resp	omiosed	industrie(\$%)	
	de			dent	its industries		
Manufacture of Bakery Products	33	14	11	02	01	32	42.40%
Rice and Grinding Mill	44	20	15	03	02	42	45.45%
Manufacture of Agricultural	07	05	04		01	06	71.42%
Machinery Products, Lathe and							
Welding work							
Manufacture of Food Products	11	07	07			11	63.64%
and Confectionery items							
Manufacture of Soft Drinks	03	03	03			03	100%
Products							
Production of Iron & Wooden	07	04	04			07	57.14%
Furniture/ Carpentry works							
Manufacture of Stone Quarrying,	01	01	01			01	100%
Clay and Sand pits							
Manufacture of Jewelers related	11	06	03		03	08	33.33%

Figure 1: Table 1 :

Ir	ndustries			
	1	F Factor 1 F	actor 2 Facto	
Satisfaction in Business Growth including Achievement of Business Goa	ıl	0.670		
Improvement in Life Standard after the business		0.8	333	
Growth in Personal Income from the beginning of business		0.5	599	
Improvement in Income Level when comparing before and after the bus	iness	0.5	511	
Improvement in saving capacity and accumulation of resources from the	9		0	
			0.437	
b	usiness			
Growth on net profit earnings from the business over the past five years	3	0.554		
Improvement in Return on Investment (ROI) from the business		0.864		
Improvement in Return on Assets (ROA) from the business		0.898		
Growth in turnover/sales from the business over the past five years			0.754	
Growth in turnover compared to the competitors over the past five year	s		0.613	
Increasing in no. of employees from the beginning of business	,		0.816	
Ability of industries to keep the organization's best and most talented p	people	0 501	0.745	
Level of customer satisfaction related to business activities	1	0.791		
Conducting survey to measure satisfaction of the customers and carry o	out the	0.767		
no	ecessary			
ch	nanges			
The market coverage of business enterprises		0.549		
Increasing the no. of customers from the beginning of business		0.700		
Overcoming the actions of the competitors ov er the past 5 years		0		
	0	0.457		
Achievement at business growth by facing the environmental challenge a	&	0.690		
st	rong			
CO	om-			
po	e-			
	-			
U	OII	0 726		
organization enhance organizational performance by being attentive to ch	external nanges	0.730		
Delivering new products and services based on market change		0.752		
Eigen Value		6.084 3.12 T .9	035.398.216	
Proportion of Variance Explained		21.60%12.5 12	6 36263B9 600%	
Cumulative Variance Explained		21.60%34.146	4 5%809 /80%	
Alpha		0.87 0.83 2 .7	71 0 .76 2 .817	
Factor 1: This factor was represented by seven				
items, was named customer satisfaction with managing				
change accounted for the amount of variance 21.60%.				
This factor included the items were level of customer				
satisfaction, survey to measure the customer				
satisfaction and carry out the necessary changes,				
market coverage of business enterprise, growth in no.				
of customers, by	usiness			
g	rowth			
by	У			
fa	ic-			
in	ıg			
th	ne			
environmental challenge & strong competition,				
Organization enhance organizational performance by				
being attentive to external changes, Delivering new				

products and services based on market change.

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Factors indicating the industrial performance		Mean	Std. Devia-	Rank
	vari-		tion	
	ables			
Factor 1: Customer satisfaction with managing change	7	26.44	3.74	11
Factor 3: Growth in business & income level	4	16.13	1.48	$2\ 2$
Factor 2: Growth in profitability	3	10.84	1.47	$3 \ 3$
Factor 5: Growth in turnover	2	7.61	0.89	$4 \ 4$
Factor 4: Growth in no. of employees	2	6.73	1.43	55

Figure 3: Table 2 :

8 CONCLUSIONS

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