HOW DO AGE, TYPE, SIZE AND NATURE DETERMINE FIRMS' ENTREPRENEURIAL ORIENTATION?

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Abstract: This study clarifies the association of entrepreneurial orientation with the diverse characteristics of a firm. Descriptive, cross sectional research design has been adopted in a survey of 457 key informants from Indian organizations. Second order CFA has been used for the measurement of the uni-dimensional construct of entrepreneurial orientation. Chi square test of independence assesses the association the degree of entrepreneurial orientation with the diverse characteristics of a firm. The findings reveals that extent of entrepreneurial posture adopted by a firm is not associated with the age of firm and nature of the industry. However some degree of association of the degree of entrepreneurial orientation with the size of firm and type of organization has been supported by the study but the strength of these associations is not very strong. The study has important implications for managers/ entrepreneurs. As the degree of entrepreneurial orientation is not strongly associated with the diverse characteristics of a firm, the policy makers of any kind of firm should not feel constrained while adopting entrepreneurial posture.

Key Words: Entrepreneurial orientation, Chi square test of independence, Dimensionality of entrepreneurial orientation.

JEL Classification: L26, C12, C16

INTRODUCTION

Entrepreneurial orientation has emerged as a major construct in the field of entrepreneurship and strategic management literature. Scholars have theorized that firm-level entrepreneurial behaviour - a propensity to engage in relatively high levels of risk taking, autonomy, innovativeness, competitive aggressiveness and proactiveness - is positively associated with organizational profitability and growth (e.g. Covin & Slevin, 1989; Lumpkin & Dess, 1996; Zahra et al., 2002; Antoncic & Hisrich, 2004; Krauss et al., 2005; Clercq et al., 2010; Soininen et al., 2012). However, the magnitude of this relationship seems to vary across studies. While some studies have found that firms that adopt a strong entrepreneurial orientation perform much better than firms that do not (e.g. Covin & Slevin, 1988; Wiklund & Shepherd, 2003; Hult et al., 2004; Krauss et al., 2005; Stam & Elfring, 2008; Kreiser & Davis 2010; Grimmer et al., 2013), other studies reported lower correlations between entrepreneurial orientation and firm performance (e.g. Zahra, 1991; Dimitratos et al., 2004; William & Sinkula 2009). Some studies were unable to find a significant relationship between entrepreneurial orientation and business performance (e.g. Hart, 1992; Covin et al., 1994; George et al., 2001; Tang & Koveos, 2004). Some studies have shown that the relationship between entrepreneurial orientation and business performance is not that straightforward; rather it is shaped like inverted U (e.g. Bhuian et al., 2005; Tang et al., 2008) which means that a very high or very low degree of entrepreneurial orientation may not always be desirable in certain organizational, market and structural conditions.

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Though the importance and impact of entrepreneurial orientation on the performance of a business has been widely studied, the linkage of entrepreneurial orientation with the diverse characteristics of a firm has not received the considerable attention of researchers. It is quite possible that the firms of different kinds might differ in their demonstrated level of entrepreneurial behavior. Small firms might not possess sufficient advanced technological capabilities and knowledge resources required for innovations. Young firms may exhibit more entrepreneurial orientation in their desire to become big. Manufacturing firms might have higher inclination for entrepreneurial behavior, in order to achieve full capacity utilization, to bring continuous differentiation in products and processes, and to better serve the customer's needs with high quality and unique products. It is quite possible that the inclination towards entrepreneurial behavior may fade with age of the organization.

In order to better understand the importance and impact of the pursuit of entrepreneurial behavior, it become necessary to refine our understanding regarding the relationship of entrepreneurial orientation with the organizational contexts. Present study is an endeavor to fill this gap by answering following research question:

How do age, type, size and nature determine firms' entrepreneurial orientation?

THEORETICAL FRAMEWORK

Entrepreneurial Orientation has often been conceptualized as the extent to which a firm showcases innovativeness, demonstrates proactiveness, prefers risk taking, shows competitive aggressiveness and allows autonomy to its employees (Miller, 1983; Covin & Slevin, 1989; Naman & Slevin, 1993; Lumpkin & Dess, 1996; Morris et al., 2007; Covin & Lumpkin, 2011; Gupta & Pandit, 2012; Vij & Bedi, 2012; Kraus et al., 2012; Kreiser et al., 2013; Grunhagen et al., 2014).

It reveals a unique combination of organizational strategy, culture, and structure, in response to the environment, for achieving higher organizational performance. According to Miller (1983), entrepreneurial firms, in pursuit of environmental opportunities, seek to generate relatively high returns through somewhat risky ventures and demonstrate a tendency to proactively engage in product market innovation by being first to market with new products, technologies, or processes so as to exploit environmental opportunities. Covin and Slevin (1989) argue that an organization's entrepreneurial orientation is the summation of the extent to which top managers are inclined to take business related risks, to favour change and innovation in order to obtain a competitive advantage for their firm, and to compete aggressively with other firms. They suggest that the strategic posture of a firm can vary anywhere on a continuum from a fully conservative orientation to a completely entrepreneurial one, based upon the operating management philosophy of the firm's top management. They concluded that firms with a propensity to engage in relatively high levels of risk taking, innovative, and proactive behaviour have *entrepreneurial orientation* while those engaging in relatively low levels of these behaviour have *conservative orientation*.

Wang (2008) has considered entrepreneurial orientation as a proclivity of a firm's top management to assume risks, to demonstrate creative behaviour, and to showcase proactive and aggressive behavior towards rivals. However, Stevenson and Jarillo (1990) suggest that an entrepreneurial orientation is not only created or imposed by firm's top management rather it is to be exhibited by multiple layers of management. According to Mintzberg (1973)

entrepreneurial orientation is the reflection of strategic posture and is deeply related with strategy making process. Entrepreneurial orientation reflects how business is to be organized.

Entrepreneurial orientation has also been conceptualized as a process construct (Lummpkin & Dess, 1996), which is concerned with the behavior of manger while realizing organizational objectives i.e. 'In what way do entrepreneurs go through the entrepreneurial process?', 'How do entrepreneurs behave while trying to be entrepreneurially different from others in the course of realizing their entrepreneurial ambition?', and 'How entrepreneurial activities are to be implemented?' Entrepreneurial orientation not only reflects the methods, policies and processes adopted by the managers in their decision making, but also manifests the entrepreneurial behavior of the firm.

Entrepreneurial orientation is a contextual phenomenon (Dess et al., 1997; Yusuf, 2002; Chang et al., 2011; Grande et al., 2011) and the degree of entrepreneurial orientation, demonstrated by a firm, is often affected by the environmental context in which a firm operates eg. according to Lumpkin and Dess (2001), degree of proactive behavior adopted by a firm is often affected by the stage of industry life cycle and the firm's which are at early stage of their industry life cycle are benefited more by employing higher level of entrepreneurial behavior. Schepers, et al., 2014 have stressed upon the type of firm while measuring the entrepreneurial orientation of a firm and its impact on the performance of a firm. According to Huang and Wang (2013), the rate of change in the external environment of a firm effects the orientation of firm. In an environment, where conditions changes rapidly and opportunities emerges continuously, organizations which anticipate future needs, took business related chance, introduces new products and services and keen to adjust its marketing and management activities to the changing market needs, are more likely to gain over their competitors. Rauch et al., 2009 have affirmed the influence of national culture, size of a firm, and its technology intensity on the strength of entrepreneurial orientation – business performance relationship. Studies such as: Zahra et al., 1999; Lee & Lim, 2009; Tang & Tang, 2012; have considered organizational size as a predictor of entrepreneurial behavior. Organizational resources have also been considered as one of the factor affecting the strategic posture of a firm (eg. Wiklund & Shepherd, 2005; Moreno & Casillas, 2008; Liu et al., 2009; Frank et al., 2010). Kreiser and Davis (2010) have demonstrated the impact of organizational structure on the degree of entrepreneurial behavior adopted by a firm. According to Vij and Farooq, (2014) the strategic posture adopted by a firm may be impacted by the organizational size, age and type. Based upon above arguments, we propose the following null hypotheses to be tested to answer the research question:

- H₁: Age of firm is not significantly associated with the degree of entrepreneurial orientation.
- H₂: Size of firm (in terms of number of employees) is not significantly associated with the degree of entrepreneurial orientation.
- H₃: Size of firm (in terms of number of annual turnover) is not significantly associated with the degree of entrepreneurial orientation.
- H₄: Nature of firm is not significantly associated with the degree of entrepreneurial orientation.
- H₅: Type of organization is not significantly associated with the degree of entrepreneurial orientation.

METHODOLOGY

For this study, we have adopted a descriptive and cross sectional research design. A purposive sample of 500 senior level managers (key informants) of Indian companies, having their registered office in north Indian, has been used for data collection. Out of the key informants from 500 companies, after weeding out the non serious and incomplete responses, 457 responses were finally selected for analysis. The sample profile is shown in Table 1.

Table 1 Sample Characteristics

Sr. No.	Parameter	Description	Absolute No.	%
1	Tyma of	Listed	201	43.98%
	Type of Organization	Non- Listed	256	56.02%
	Organization	Total	457	100.00%
2	Nature of	Manufacturing	312	68.27%
	Industry	Non- Manufacturing	145	31.73%
	ilidusti y	Total	457	100.00%
3	Age of your	More than 15 years	368	80.53%
	organization	Less than 15 years	89	19.47%
		Total	457	100.00%
4	Annual Turnover	More than Rs. 500 crores	155	33.92%
		Between Rs. 50-500 crores	302	66.08%
		Total	457	100.00%
5	Number of	More than 250	342	74.84%
	employees	Upto 250	115	25.16%
		Total	457	100.00%
6	Investment made	More than 10 crores	455	99.56%
	in the company	Upto 10 crores	2	0.44%
		Total	457	100.00%

Source: Primary Data

Measures

To assess the entrepreneurial orientation of a firm, uni-dimensional view of entrepreneurial orientation has been considered. A twenty eight item seven point scale of entrepreneurial orientation has been developed, where 7 items reflect innovativeness, 5 items measure risk taking, 6 items highlight proactiveness, 5 items indicate competitive aggressiveness and 5 items measure autonomy. Entrepreneurial orientation has been operationalized in terms of dimensions proposed by of Covin & Slevin (1989) and Lumpkin & Dess, (1996). Items of the scale have been sourced from various studies.

RESULTS AND ANALYSIS

Analysis follows a two-step procedure: Assessing the validity of the entrepreneurial orientation construct through confirmatory factor analysis (CFA) by using AMOS 19.0, followed by assessing the association of entrepreneurial orientation with different demographics of an organization through chi square test. For the measurement of entrepreneurial orientation, a reflective measurement theory has been adopted by considering entrepreneurial orientation as a second order CFA. All twenty eight items, firstly loaded on five independent constructs in the first-order CFA and then these five dimensions loaded on the one single dimension i.e. entrepreneurial orientation (Refer Figure 1).

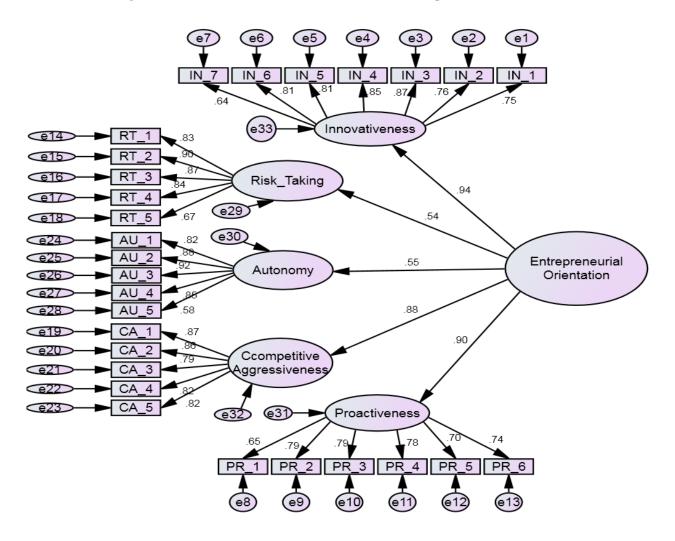


Figure 1: Uni-dimensional view of the construct of entrepreneurial orientation

The results of uni-dimensional model of entrepreneurial orientation reveal normed chi-square = 2.48; GFI = 0.879, AGFI = 0.858; NFI = .914; CFI = .947; RMR = 0.161; and RMSEA = 0.057. RMR exceeds the cutoff of .08. GFI and AGFI fall below the guidelines of .90. The standardized residuals and modification indices were investigated to find the reasons for poor model fit.

Based upon these insights some modification has been made in the model. Items such as AU_3, AU_5 and RT_5 have been dropped from the further analysis due to their inability to capture the true meaning of underlying constructs. Items such as IN_4 and PR_4 have been dropped, as these items are highly correlated with the measures of some other constructs. The relationship between IN_2 and IN_3, CA_4 and CA_5 and the error terms of the first order construct risk taking and autonomy has been assessed by introducing a sign of covariance between these items.

The results of revised uni-dimensional model of entrepreneurial orientation reveal that all the goodness of fit indices eg. GFI, AGFI, NFI and CFI are above the cutoff of .90 (refer Table 2), badness of fit indices eg. RMR and REMSA are less than the threshold of .08 (refer Table 2),

Normed chi-square has been observed as 1.57. All these indices reveal a good model fit. Further, all the standardized regression weights (of all first order constructs - refer Table2 and all individual items - refer Table 3) are above the threshold of .50, which supports the claim that the instrument is capable in providing the accurate interpretation of underlying uni-dimensional construct of entrepreneurial orientation. An AVE score of .592, reflect the high amount of shared or common variance and affirms the claim that the amount of variance captured by the scale is relatively higher than the amount of measurement error. Although various dimensions of entrepreneurial orientation are unique in nature but the CR of .872 supports the high positive correlation between the different dimensions of entrepreneurial orientation and proves the convergence of various dimensions towards the common meaning of entrepreneurial orientation.

Table 2
Psychometric properties of the Uni-dimensional View of Entrepreneurial Orientation

Construct	Parameter	Index	Threshold	Dimension	SRW	Threshold	AVE	CR
	Chi Square	348.87		Innovativeness	.923	At least		
	Degree of Freedom	222	NA			0.50		
Entrepreneurial Orientation (uni-dimensional View)	Normed Chi Square (Chi-square/ df)	Square 1.57 Less than 3.0		Proactiveness	.884 At least 0.50			
rial Or ısional	GFI	.937	At least 0.90	Risk Taking	.505	At least 0.50	.592	.872
reneu	AGFI	.922	At least 0.90	Kisk Taking				
Entrep (uni-	NFI	.954	At least 0.90	Competitive	.898	At least		
4	CFI	.983	At least 0.90	Aggressiveness		0.50		
	RMR	.065	Less than .08	A 4	5 40	At least	1	
	REMSA	.035	Less than .08	Autonomy	.519	0.50		

To assess the association between the degree of entrepreneurial orientation with the diverse characteristics of a firm (age, size, type and nature), chi square test for independence has been employed. As Chi square test for independence actually assesses the degree of association between the two categorical variables, the degree of entrepreneurial orientation (a continuous variable) has been assessed by classifying the summated score of entrepreneurial orientation into three categories i.e. low degree of entrepreneurial orientation, Moderate degree of entrepreneurial orientation and high degree of entrepreneurial orientation (Refer Table 4). A high degree of entrepreneurial orientation indicates the proclivity of the firm towards entrepreneurial behavior i.e. a strong inclination of firm's top management to "engages in product marketing innovation, undertake somewhat risky ventures, and being first to come up with proactive innovations, beating competitors to the punch" (Miller, 1983). A low degree indicates the adoption of conservative behavior i.e. propensity of a firm to engage in relatively low levels of innovativeness, proactiveness, risk taking, competitive aggressiveness and

autonomy. Moderate score of entrepreneurial orientation indicates a moderate approach of the organization in adoption of entrepreneurial behavior.

Table 3
Standardized Regression Weights of Entrepreneurial Orientation Items

Con	struct	Items	Source	Item Code	SRW
		In general, the top managers of my business unit			
		Have a strong emphasis on R&D, technology leadership and innovations.	Covin & Slevin, 1989	IN_1	0.75
		Have introduced very many new lines of products or services in last 5 years	Covin & Slevin, 1989	IN_2	0.76
	atio	Invest heavily in new product development.	Covin & Slevin, 1989	IN_3	0.86
	Innovation	Is willing to try new ways of doing things and seek unusual, novel solutions**	Wang, 2008	IN_4	NA
		Emphasizes on developing new technology.	Yang et al., 2007	IN_5	0.81
		Invests heavily in process improvement.	Yang et al., 2007	IN_6	0.82
		Discourage employees to think and behave in original and novel ways. (Reverse coded)	Wang, 2008	IN_7	0.63
	Poactiveness	Is very often the first business to introduce new products/ services, administrative techniques, operating technologies etc.	Covin & Slevin, 1989	PR_1	0.65
u		Spends time discussing customers' future needs.	Jaworski & Kohli, 1993	PR_2	0.80
Entrepreneurial Orientation		Actively collects and evaluates information on consumer needs & preferences.	Gonzalez-Benito <i>et al.</i> , 2009	PR_3	0.80
rial Ori		Actively collects and evaluates information on technological developments.**	Zhao et al., 2011	PR_4	NA
preneu		Actively collects & evaluates information on interest rate, exchange rate, industry growth rate, and inflation rate etc.	Matsuno et al., 2002	PR_5	0.71
Entre		Always engage in ongoing, active search for big opportunities.	Soininen et al., 2011	PR_6	0.75
		A strong inclination for high risk projects (with chances of very high returns).	Covin & Slevin, 1989	RT_1	0.83
	ing	Believe that owing to the nature of the environment, bold, wide-ranging acts are necessary to achieve the firm's objectives.	Covin & Slevin, 1989	RT_2	0.90
	isk Taking	Typically adopts a 'Bold and Aggressive Posture', in order to maximize the probability of exploiting potential opportunities.	Covin & Slevin, 1989	RT_3	0.87
	Risl	Implement plans only if they are very certain that these will work. (Reverse Coded)	Matsuno et al., 2002	RT_4	0.85
		Recognize and reward the risk takers, whether they are successful or not.**	Soininen et al., 2011	RT_5	NA
	Autonomy	Believe that individuals and/or teams pursuing business opportunities can take decisions on their own without constantly referring to their supervisor(s).	Hughes & Morgan, 2007	AU_1	0.84
	Auto	Encourage individuals and/or teams pursuing business opportunities to proceed without having to justify their action at every stage of development.	Lumpkin et al., 2009	AU_2	0.89

	Encourage individuals and/or teams to think "Outside the Box" when making decisions.**	Lumpkin et al., 2009	AU_3	NA
	Supports the efforts of individuals and/or teams that work autonomously.	Lumpkin et al., 2009	AU_4	0.83
	Encourages employees to make decisions on their own.**	Hughes & Morgan, 2007	AU_5	NA
	Regularly benchmarks its activities against the best players in the industry.	Matsuno et al., 2002.	CA_1	0.88
ve	Adopts innovative methods to beat the competition.	Matsuno et al., 2002.	CA_2	0.86
Competitive ggressiveness	Engages in competitive intelligence to generate actionable foresight for strategy making.	Zahar <i>et al.</i> , 2002	CA_3	0.79
Coo	Adopts an aggressive attitude toward our competitors.	Lumpkin& Dess, 2001	CA_4	0.80
	Indulge in competitor response modelling and war gaming exercises.	Zahar <i>et al.</i> , 2002	CA_5	0.80

^{**} Items dropped

Table 5 provides the results for the association of the degree of entrepreneurial orientation with diverse characteristics of a firm. Chi square statistic of 1.259 with a p-value of 0.53 has been observed for the association between the age of a firm and degree of entrepreneurial orientation. Inspection of chi square critical value table - at 5 percent level of significance with 2 degrees of freedom, reveals a cutoff of 5.99 for the rejection of null hypothesis of independent relationship. Since the chi square statistic of 1.259 with a p-value of 0.53 does not fall under the critical region of rejection so the null hypothesis of no association between the age of a firm and the degree of entrepreneurial orientation cannot be rejected at 5 percent level of significance. The evidence produced by the data suggests that the age of a firm and the degree of entrepreneurial orientation, are independent of each other.

Table 4
Classification of entrepreneurial orientation into different categories

Parameter	Degree of Entrepreneurial Orientation	Score	Range of summated score of Entrepreneurial Orientation		
	Low	Upto 80.00			
Entrepreneurial Orientation	Moderate	80.01 to 120.00	43 to 152		
	High	More than 120.00			

The cross classification table for the association between size of firm - reflected through annual turnover and degree of entrepreneurial orientation produces a chi squared statistic of 16.08, which was large enough to reject the null hypothesis of independent relationship at 5 percent level of significance. Though the chi square test of independence suggest significant association between the annual turnover and degree of entrepreneurial orientation, but an index of 0.188 for 'Cramer V' implies a weak form of association between these variables.

The results of chi square test of independence regarding size of firm in terms of number of employees and degree of entrepreneurial orientation (Refer Table 5) affirms significant association between these variables. The data yields a chi squared statistic of 13.27, which exceed the critical value of 5.991 and provides sufficient evidence of significant association

between these variables. However, the strength of the association remains low (Cramers V=0.17).

Table 5
Results of Chi Square test of Independence

Association between Age of firm and Degree of entrepreneurial orientation											
Degree of Degree of Degree of Children of											
Parameter	Classification	entrepreneurial orientation		Total	1	Degree of Freedom	Critical Value of Chi	p- value	Cramers V		
		Low	Moder ate	High		statistics	rieedom	Square	vaiuc	Statistic	
Age	More than 15 Years	22	138	208	368						
1150	Upto 15 Years	4	29	56	89	1.259	2	5.99	.533	.052	
Т	`otal	26	167	264	457						
Association	on between Size o	f firm in	terms of a	nnual tur	nover ar	d Degree	of entreprene	urial orienta	tion		
Annual	More than Rs. 500 Crores	1	49	105	155						
Turnover	Upto Rs. 500 Crores	25	118	159	302	16.08	2	5.99	.000	.188	
Total		26	167	264	457						
Associatio	firm in t	erms of N	o. of emp	oloyees a	nd Degree	of entrepren	eurial orienta	ation			
No. of	More than 250	12	123	207	342						
Employees	Upto 250	14	44	57	115	13.27	13.27 2	5.99	.001	.170	
Т	`otal	26	167	264	457						
	Association bety	veen natu	re of indu	stry and	Degree o	of entrepre	neurial orient	ation			
Nature of	Manufacturing	17	116	179	312			5.99	.889		
Industry	Non- manufacturing	9	51	85	145	0.236	0.236 2			.023	
Т	otal	26	167	264	457						
	Association between type of organization and Degree of entrepreneurial orientation										
Type of	Listed	18	76	107	201						
Organization	Non-listed	8	91	157	256	8.16	8.16	2	5.99	.017	.134
Т	Total		167	264	457						

Contingency table for the association between the nature of industry and degree of entrepreneurial orientation reveal a chi square statistic of 0.236 with a p-value of 0.889, which was not large enough to reject the null hypothesis of independent relationship. The degree of entrepreneurial orientation reflected by a firm remains invariant in both manufacturing and non-manufacturing organizations.

The chi square test of independence regarding association between the type of organization (i.e. listed vs. non-listed) and degree of entrepreneurial orientation produces a chi square statistic of 8.16, which was large enough to reject null hypothesis at 5 percent level of significance. The evidences generated by data suggest some amount of association between type of organization and degree of entrepreneurial orientation but the value for Cramer's V (0.134) indicates a low degree of association between these variables.

Table 6 summarizes the results for hypotheses testing.

Table 6
Results of Hypotheses Testing

Hypothesis	Description					
H_1	Age of firm is not significantly associated with the degree of entrepreneurial orientation	Accepted				
H_2	Size of firm (in terms of number of employees) is not significantly associated with the degree of entrepreneurial orientation	Rejected				
H_3	Size of firm (in terms of number of annual turnover) is not significantly associated with the degree of entrepreneurial orientation	Rejected				
H_4	Nature of firm is not significantly associated with the degree of entrepreneurial orientation.	Accepted				
H ₅	Type of organization is not significantly associated with the degree of entrepreneurial orientation.	Rejected				

DISCUSSION AND IMPLICATIONS

The results of the present study reveals that there is no predictable relationship exist between age of a firm and the kind of strategic posture (entrepreneurial orientation) adopted by a firm. Young firms can be conservative in their strategic posture; whereas old firms can go for an entrepreneurial posture and vice- versa. Size of firm is significantly associated with the degree of entrepreneurial orientation. Large firms, both in terms of annual turnover and number of employees differ but not very significantly, from small firms - while introducing new product and services, adopting novel practices, undertaking risky alternatives, assuming a forward looking perspective and demonstrating an aggressive behavior toward their rivals. Finding discloses an insignificant association between the nature of industry and the degree of entrepreneurial orientation. Study suggests that both manufacturing and non-manufacturing firms can adopt entrepreneurial posture with equal zeal and enthusiasm. Study reveals a significant association between the type of organization and degree of entrepreneurial orientation. Listed firms differ but not very significantly from non listed firms while exhibiting entrepreneurial behavior, may be because of differences in their legal compliances and governance pattern.

Study further implies that firms of all genres should consider being actively involved in entrepreneurial behavior. The degree of entrepreneurial orientation is not significantly associated with the diverse characteristics of a firm. The adoption of entrepreneurial posture is equally feasible for the firms of different age groups, different sizes, different types and different nature. The policy makers of any kind of firm should not constrained themselves while adopting a posture which is highly entrepreneurial. Study also advances the theories of entrepreneurship by providing a uni-dimensional validated scale for entrepreneurial orientation. Managers of all kind of firms can draw insights from these results and better decide the strategic postures of their firm.

LIMITATIONS AND SUGGESTIONS FOR FUTURE RESEARCH

Though the findings of the study are based on input from Indian context and no generalization of the results is claimed, the results may be relevant for other emerging economies having similar business environment as that of India. Secondly the results are based on perception of individual key respondent. Response of a single respondent could be biased and may not present the true picture of the strategic posture adopted by the firm. In future studies, average response of multiple key respondents from the same firm may be considered to get more accurate picture of strategic posture adopted by the firm. Future studies should investigate the effect of the entrepreneurial orientation on the performance of firm by considering firm's characteristics as moderating variables to better assess the impact of firm's characteristics on entrepreneurial orientation – business performance relationship.

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