e-ISSN : 2347 - 9671, p- ISSN : 2349 - 0187

EPRA International Journal of Economic and Business ReviewVol - 4, Issue- 2, February 2016Inno Space (SJIF) Impact Factor : 5.509(Morocco)ISI Impact Factor : 1.259 (Dubai, UAE)



# A SURVEY OF INTERNET FINANCIAL REPORTING IN SRI LANKA

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## ABSTRACT

The purpose of this paper is to investigate the extent and variety of practices of internet ûnancial reporting (IFR) by companies listed on the Colombo Stock Exchange, Sri Lanka. While IFR is fast becoming the norm in most western countries, there is little empirical evidence of the phenomenon in Sri Lanka. This paper attempts to ûll some of the gap in the literature by providing evidence of IFR practices in Sri Lanka. The 142 companies listed on the CSE were investigated to ascertain whether they maintain websites and/or if these sites are being used for communicating ûnancial information. Only 84 of the listed companies were found to operate websites, with even less (only 31) engaging in IFR. However, IFR is not restricted to the publication of annual ûnancial statements only as the companies also disclose ûnancial highlights through their websites. The results of this study indicate that IFR is still at an embryonic stage in Sri Lanka and there are lots of opportunities and challenges for all stakeholder parties in corporate reporting. **KEYWORDS-** Internet, Financial reporting, Colombo Stock Exchange Sri Lanka

## **1. INTRODUCTION**

This paper investigates and reports on the extent and nature of internet ûnancial reporting (IFR) among companies listed on the Colombo Stock Exchange (CSE) in Sri Lanka. While IFR is fast becoming the norm in most western countries, there is little empirical evidence of the phenomenon in the Sri Lanka. Until recently, hard copies (paper) have been the primary means for communicating ûnancial information to shareholders and other interested corporate stakeholders. Technological advancement has made the internet a useful, timely and cost-effective tool for the communication of this information to stakeholders. The internet has the potential power to revolutionise ûnancial reporting. Companies can include the traditional annual reports together with additional ûnancial and non-ûnancial information in multiple formats (Jones and Xiao, 2004). Questions persist as to whether corporate organisations in Sri Lanka are availing themselves of the opportunity provided by the internet to communicate ûnancial information to their stakeholders. While the use of the internet for the communication of ûnancial information raises a variety of challenging issues, there is little doubt about its beneûts. This paper is an important ûrst step in gauging the extent to which such beneûts are being captured in the Sri Lanka. Given the increasing importance of IFR and the lack of empirical study on IFR practices in the Sri Lanka, this paper provides an important contribution to ûlling the gap in our knowledge of this subject.

Evidence of IFR practices in various countries have been presented by a number of academic and professional studies (Craven and Marston, 1999; Deller et al., 1999; Gowthorpe and Amat, 1999; Hedlin, 1999; Lymer

#### e-ISSN : 2347 - 9671, p- ISSN : 2349 - 0187

et al., 1999; Pirchegger and Wagenhofer, 1999; Trites, 1999; Marston, 2003; Oyelere et al., 2003; Gowthorpe, 2004; Fisher et al., 2004; Laswad et al., 2005; Chan and Wickramasinghe, 2006). They indicate the growing use of the internet for corporate dissemination including providing annual reports on the internet and that the extent and sophistication of IFR practices varies across countries. The current paper provides evidence of IFR in Sri Lannka

The 142 companies listed on CSE were identiûed on the Colombo stock market and other related websites. The companies' web site links, where available were, in the ûrst instance, accessed through these websites. Otherwise, a search was made for the company site using search engines. Finally, the companies were contacted by telephone and required to provide their web site address, if any. Eighty-four CSE isted companies were found to maintain websites; of these, only31 engageing IFR, in a variety of formats, types and volume. From the results of this study, it is possible to preliminarily conclude that IFR is still at an embryonic stage in Sri Lanka, providing lots of opportunities and challenges for all stakeholder parties in corporate reporting. The study highlights some of these, as well as a number of areas for further study.

The rest of this paper is structured as follows. A review of relevant literature is provided in Section 2. This is followed by a discussion of the institutional framework of the proposed research. The proposed research methodology is discussed in Section 4. Section 5 provides analyses and discussions on the extent and nature of IFR by companies listed in Sri Lanka. Summary and conclusions are presented in Section 6.

## 2. LITERATURE REVIEW

During the last decade the IFR issue has become of significant interest to researchers across the world. In general, the extant IFR studies can be categorized as either descriptive studies providing statistics on the extent and nature of IFR or association studies addressing the determinants of IFR.

## **Descriptive studies:-**

In reviewing a decade of academic and professional research, Lymer (1999) concluded that, as of the late 1990s, Europe lags the U.S. in both the amount of data reported on the internet and the sophisticated utilization of internet technology. Further, he concluded that there was a considerable divergence of corporate usage of the internet within and between European countries, with the U.K. being the first in the list and Spain being the last. Marston and Polei (2004) surveyed the IFR practices of German companies between 2000 and 2003 and found significant improvements in the quantity and presentation of financial information at corporate websites.

In the international context, Debreceny et al., (2002) examined IFR practices of 660 large companies in 22 countries and found that the majority of the sampled firms have websites in English and these sites are being used for both financial and non-financial information. Oyelere et al., (2003) examined IFR practices of 90 New Zealand listed companies and found that 53.7% of 90 companies have websites and 61.1% of the companies provided their financial information in PDF format. Marston (2003) surveyed IFR practices of top Japanese companies in 1998 and 2001, and found that about 79% of the sample companies had a website in English in 2001 compared to 69% companies in 1998. In a similar study, Khadaroo (2005) examined IFR practices of Malaysian companies between 2000 and 2004 and found an increase in quantity, but little improvement in quality of internet reporting information to users.

## **Association Studies:-**

In addition to describing IFR, researchers have more recently begun to draw motivations from signaling and agency theories and conduct empirical research focused on linking several company specific characteristics with IFR disclosures. Independent variables studied include, among other things, size, industry, free float, profitability, analyst following, ownership diffusion, and director independence. For example, Ettredge et al., (2001) examined IFR practices of 402 U.S. companies using a 17item disclosure index addressing accounting and other financial information attributes. They found that company size and industry variable were significantly associated with the extent of financial disclosure. Allam and Lymer (2003) examined corporate internet reporting in U.S., Canada, U.K., Australia, and Hong Kong utilizing a 36-item disclosure index addressing 12 general attributes and 24 Financial/Annual Report related attributes of IFR. They found that company size was significantly positively associated with the quality of financial disclosure in Australia only. Marston and Polei (2004) examined the IFR practices of 50 German companies listed on DAX 100 between 2000 and 2003. They found that, for the year 2000, company size and free float were significantly positively associated with the quality of financial disclosure. For the year 2003, the evidence links company size, profitability, and ownership diffusion with the quality of IFR. Xiao et al., (2004) examined IFR practices of 300 Chinese-listed companies and found that, for the 203 with website, the variables size, industry, ownership, and leverage were the determinants of voluntary internet

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based disclosure of listed companies. In a more recent study, Abdelsalam et al., (2007) examined the association between the comprehensiveness of corporate internet reporting disclosures and corporate governance factors for a sample of 110 London-listed companies. After controlling for company size, profitability, and industry, they found that the comprehensiveness of corporate internet reporting is associated with analyst following and three corporate governance measures.

While international research on IFR has been voluminous, studies conducted in the Middle East region have typically focused on the challenges companies would face in the IFR environment. For example, Shareef (1998) and Mohammed (2001) have noted a number of IFRrelated challenges, of which are the possible errors in the publishing process and the security and integrity of the financial information published. They also noted that if IFR represents the only tool for communicating financial information, there is the likelihood that access to such information would be limited to only those who possess computers and maintain internet skills. Our review of the literature reveals that Mohamed and Oyelere's study (2008) and Mohammed et al.'s study (2009) might probably be the only two studies that are somewhat related to our present study. Mohamed and Oyelere (2008) collected and analyzed data on the 49 companies listed on the stock market of Bahrain. Only 39 of these companies (79%) were found to be maintaining websites, of which 31 report financial information on their websites. Mohammed et al., (2009) investigated the extent and variety of IFR practices by the 142 companies listed on the Muscat Securities Market in Oman. They found that only 84 of the listed companies operate websites, of which 31 engage in IFR. Our study extends this descriptive line of work and documents the present state of IFR practices in Qatar.

## **3. INSTITUTIONAL FRAME WORK**

This paper presents a proposed methodology for the investigation of the extent to which companies in the Sri Lanka use the internet to communicate ûnancial information to their stakeholders. The study will examine the extent of ûnancial reporting on the websites of companies listed on the CSE in Sri Lanka. The environment and institutional framework of the location of the proposed study are discussed in this section.

The government of Sri Lanka realized sometime ago that in order to keep pace with international developments and enable the vision of a solid economy that will be recognised internationally, it was necessary to have a strong ûnancial sector based on well-established ûnancial companies. This will also facilitate a suitable environment for successful companies and projects that will add value to the economic cycle. To realise these objectives, it was decided to set up a stock exchange. The exchange, called Colombo Stock Exchange, was set up. The decree set the legal framework for the establishment of the market as an independent organisation to regulate and control the Sri Lankan securities market and to participate with other organisations in setting up the infrastructure of the Sri Lankan ûnancial sector. After ten years of continuous growth of the national economy in general and the market in particular, and to cope with new developments in the local and international ûnancial sector, particularly in the securities industry, it was decided that there was a need for better control and regulation of market activities.,

The government of Sri Lanka aimed to institute a well-established securities industry in the country, to help develop and sustain investors' conûdence in the stock market. As a continuing process in the development of the securities market, the CSE has developed its web site to make information and ûnancial data related to the performance of all listed companies available to and directly accessible by investors. This is aimed not only at ensuring transparency of activities, which is considered one of the main principles of a well organized market, but also at supporting the market by encouraging investors to make the right investment decisions. The CSE currently lists 142 companies.

## 4. METHODOLOGY

The aim of this study is to investigate and document the extent and nature of IFR practices among companies listed on CSE in Sri Lanka. The research methodology employed to accomplish this aim is presented in this section. The list of 142 companies listed on CSE was obtained from the CSE websites. Data regarding whether these companies have web site or not were obtained via links at the CSE websites. Where these do not exist, a search was made for the company web site using google.com and yahoo.com search engines. Finally, the companies were contacted by telephone and required to provide their web site address, if any. A similar sequence for identifying corporate websites was used by Craven and Marston (1999), Fisher et al. (2004) and Oyelere et al. (2003).Where corporate sites are available, we moved to the next stage of the data collection process by investigating the type of information provided at these sites. Four categories of information:

## 5. RESULTS AND DISCUSSION

There are 142 companies listed on the CSE as at the end of June 2006. These companies are from three main industrial sectors, with 31 of them (about 22 per cent) in the banking and investment sector, 49 (about 33.5 per cent) in the insurance and services sector, and 62 (about 44.5 per cent) in the industrial sector.

Eighty-four (about 59 per cent) of these companies were found to have corporate websites. Of these "websiters", 23 (about 27 per cent) are from the banking and investment sector, 28 (about 33 per cent) are from Insurance and Services, while 33 (about 39 per cent) are from the industrial sector. The remaining 58 companies (about 41 per cent) are without websites. These "non-websiters" consist of 29, 21 and 8 companies from the industrial, insurance and services and banking and investment sectors, respectively. Sixty-two (44.50 per cent) of the CSE-listed companies operate in the industrial sector. However, only 33 of the 62 companies (53 per cent) in this sector have websites. This compares unfavourably with companies in the banking and investment sector, where about 74 per cent of companies have websites (23 out of 31). While, in the insurance and services sector 57

per cent (28 out of 49) are "websiters". Generally, the proportion of web site ownership appears low among CSElisted companies when compared with developed western countries such as the USA, UK,

Australia and New Zealand(Lymeret al .,1999;Oyelereet al .,2003). However, it is expected to compare favourably with those of similar countries in the Gulf/Middle East region. Eighty-four of the 142 companies listed on the CSE have websites. However, 14 of these companies still have their websites under construction, leaving an effective percent of 49.3 per cent (70 out of 142). This compares with a rate of 53.7 per cent for companies listed on the New Zealand stock exchange (Oyelere et al., 2003), 89 per cent of the top 100 Fortune Global 500 companies (Flynn and Gowthorpe, 1997), 92 per cent of the top 50 UK companies by market capitalisation (Lymer, 1997), 74.2 per cent of the Spanish IBEX-35 listed companies and 90 per cent of all 72 listed Finnish companies (Lymer and Tallberg, 1997). All the remaining 70 companies provide a variety of information on their sites. These include company history, product, ûnancial and other information. A summary the various types of information provided is presented in Table II.

		Company history I			Produ	Product and services			Financial information		
	Sector	Yes	No	Total	Yes	No	Total	Yes	No	Total	
	Banking and investment	11	4	15	12	3	15	8	7	15	
Table II.	Industrial	30	1	31	31	0	31	12	19	31	
Types of information on	Insurance and services	23	1	24	24	0	24	11	13	24	
companies website	Total	64	6	70	67	3	70	31	39	70	

Sixty-four companies provide historical/ background information about them and 67 provide product/service information. This is compared with only thirty-one companies (44.3 per cent) that provide ûnancial information at their web site, indicating perhaps that IFR, being a relatively new phenomenon, is not an overly widespread practice among Omani companies. However, this result, taken on its own, may not provide us with a complete picture given that there are links to current but limited ûnancial information about almost all the 142 CSElisted companies at the CSE web site(www.cse.lk) The 44.3 percent of CSE-listedcompanies providing ûnancial information on their web site compares with 73.2 per cent of NZSE-listed companies (Oyelere et al., 2003) with websites, 81 per cent of US Fortune 150 companies (Petravick and Gillett, 1996), 55.7 per cent of quoted Spanish companies (Gowthorpe and Amat, 1999) and 50 per cent of the top 50 UK corporations (Lymer, 1997).

Analysis of the nature and extent of financial information provided by the 31 companies that provided financial information is presented in **Table III and IV**. Only 23 out of the 31 (74 per cent) companies providing ûnancial information do so for two-year periods or more, the other eight companies (26 per cent) provide ûnancial information only for one year. Of the 31 companies providing ûnancial information, only 24 (77 per cent) provide both annual reports and additional ûnancial highlights,

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			Annual r	eports	Fi	nancial hi	ghlights	E	Both: A.R	and F.H
	а.	PDF	HTML	MS Word	PDF	HTML	MS Word	PDF	HTML	MS Word
	Banking and									
	investment	33	$\frac{2}{4}$	2	3 5	3	2	33	$^{2}_{4}$	2
Table III.	Industrial	3	4	0	5	7	0	3	4	0
Format of publication	Insurance and									
and nature of published	services	10	0	0 2	10 18	1 11	02	10 16	0	0
financial information	Total	16	6	2	18	11	2	16	6	2
	27			nancial high	-		ual reports			R and F.H
				9	light years		ual reports r Two yea	urs C	Both: A.l )ne year	
Table IV.	Banking and in	vestme	One	year Two	years 6			urs C		Two years
Table IV. Number of years and	Banking and in Industrial	vestme	One	year Two 2 3	years 6 6		r Two yea	ars C		Two years
		vestme	One	year Two 2 3	years 6		r Two yea	ars C		Two years

While the remaining seven provide only financial highlights. These means all 31 companies are providing ûnancial highlights. Most (18 out of 31) of these companies provided their ûnancial information in PDF format. This compares with 55 out of 90 (61.1 per cent) in a study of New Zealand listed companies (Oyelere et al., 2003). Of these, 16 provided both annual reports and ûnancial highlights, while the remaining two provided ûnancial highlights only. Six companies provided both annual reports and ûnancial highlights in HTML format, while another ûve companies used HTML in providing only ûnancial highlights. On the other hand, MSWord was used by two companies that provided both annual reports and ûnancial highlights.

Further statistical tests were undertaken to compare the types of information provided across different sectors.  $X^2$  tests were used to conûrm possible difference or similarity across the three industrial sectors. The results of the test are presented in **Table V**.

As presented in Table V, the results of statistical tests indicate that there are no statistically significant differences in the provision or non-provision of financial information by companies in the three industrial sectors of the CSE. While the banking and investment sector had the greatest proportion of providers (53per cent) to nonproviders of financial information ,and the industry sector had the lowest(39percent providers), the level of difference between the three sectors is not statistically significant at the10 percent level or higher In other words, the three industrial sectors are relatively similar in terms of the proportion of companies that provide financial information and those that do not provide .This result is similar to the findings of Craven and Marston(1999).

### 6. SUMMARY AND CONCLUSION

This paper has investigated and reported on the extent and nature of IFR practices among companies listed on the CSE. Given that there is hardly any piece of empirical study on IFR practices in the this region, this paper is an important contribution to filling the gap in our knowledge of this subject. The paper provides a valuable insight into IFR in this region that will benefit all stakeholder parties in corporate reporting. We collected and analyzed data on the 142 companies listed on the stock market in Sri Lanka. Only 84 of these companies maintain websites, of which 31 provide financial information on the sites. We did not find statistically significant differences across industrial sectors among companies that provide financial information on their websites. Majority of these companies use the PDF format to publish the financial information. Some companies also choose to use the internet to provide additional financial information, in the form of financial highlights.

Sector		Yes	1 mancia	ll information No		Total	
	No.	Per cent	No.	Per cent	No.	Per cent	
Banking and investment	8	53.3	7	46.7	15	21.4	
Industrial	12	38.7	19	61.3	31	44.3	
Insurance and services	11	45.8	13	54.2	24	34.3	
Total	31	N/A	39	N/A	70	100	
						ymp. sig.	
	Value 0.912 0.912		df 2 2		(two-sided) 0.634 0.634		
Pearson $\chi^2$							Table V $\chi^2$ test of sectora
Likelihood ratio							
No. of valid cases		70					differences in IFR

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#### e-ISSN : 2347 - 9671, p- ISSN : 2349 - 0187

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The findings of this study reveal a seemingly limited use of the internet for financial reporting purpose in Sri Lanka. It appears that despite the growing use of the internet as a medium for the dissemination of corporate information in other regions and countries of the world, many companies either do not have a corporate web site, or are not using their web site to disseminate such information. It is however possible that listed companies in Sri Lanka do not see an incremental benefit in engaging in IFR, given that the financial information of most of them is already published through the websites of the CSE (www.cse.lk). This should, however, not be the case, as companies should endeavour to take control and responsibility for the information communicated to their stakeholders. Despite such links to regulator and stock exchange websites in other countries (UK, the USA, Malaysia and Singapore, for example), IFR is already the norm, rather than the exception, among companies.

Perception about cost and technological expertise may be other issues limiting the widespread implementation of IFR among companies in the Middle East. However, apart from initial set-up costs, which are relatively minor, the ongoing long-term costs of operating and maintaining corporate websites for IFR purposes are minimal.

The benefits to be derived from IFR in the current age of globalization and endemic market inter-linkages are likely to far outweigh the pecuniary costs. The current level of technological expertise and development in the regions more than adequate for the creation, operation and maintenance of corporate websites for IFR purposes. Perhaps, the "novelty" factor is the main factor responsible for the current low uptake of IFR among companies in Sri Lanka. This is likely to be generalizable to other countries in the region. If that is the case, the region is likely to witness an upsurge in IFR over the next five years and regulators and other governmental agencies, as well as other stakeholder groups will need to be prepared for this near-future development.

Currently, to the best of our knowledge, there is little by way of regulatory guidance or pronouncement on IFR in Sri Lanka and perhaps in most countries of the Middle East region.

This situation needs to be remedied in advance. Regulatory guidance needs to cover issues such as the general responsibility of companies to shareholders; whether IFR is a direct substitute or complement for hard copy financial statements that companies are required by law to provide to shareholders; rules regarding the publication of audited and non-audited financial information on the internet; the responsibility of external auditors for audited and non-audited financial information published on the internet (Fisher et al.,2003); corporate governance issues related to IFR (Oyelere et al., 2006);, etc. Such regulation may also aim to streamline web-reporting practices to avoid the problem of excessive variety of non-standardised practices currently available in many countries.

This is a limited and preliminary survey of IFR practices of companies listed in Sri Lanka. It may not provide an in-depth view of the variety and specifics of practices currently available in Sri Lanka. This is the subject of an ongoing larger study. Future studies may further investigate the motivation of companies that engage in IFR in region. Such investigations may focus on both internal and environmental determinants of such practices. Studies may also survey various corporate stakeholder groups, including shareholders, management, relevant governmental agencies, auditors, etc. to ascertain their perceptions of the nature and extent of IFR practices in this region.

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