Scholars Bulletin *(Business and Management)*

An Official Publication of "Scholars Middle East Publishers", Dubai, United Arab Emirates
Website: http://scholarsbulletin.com/

ISSN 2412-9771 (Print)
ISSN 2412-897X (Online)

Moderating Influence of Stakeholder Knowledge on the relationship between Social Reporting and Sustainability Accounting in the Tea Sector in Mount *Kenya Region*

Onyango Sylvester[1], Muchina Stephen (PhD) [2], Ng'ang'a Stephen Irura (PhD) [3]

[1]Graduate Assistant and Masters Student of MBM Finance and Accounting
[2]Lecturer of Finance, Business & Entrepreneurship at Karatina University
[3]Associate Professor in Entrepreneurship, Deputy Principal at Garissa University College

***Corresponding author**
Onyango Sylvester

Article History
Received: 31.08.2017
Accepted: 07.09.2017
Published: 30.09.2017

DOI:
10.21276/sb.2017.3.9.2

Abstract: In accounting, financial reporting dominantly focus on profits. There is growing pressure on social sensitivity of accounting. Sustainable Development Goals advocate for concern to the environment. Some researchers have endeavored to demonstrate how accountancy need to respond to the social concerns beyond traditional goal of profit maximization that singles out shareholders from the many stakeholders. However, these studies have been deficient in addressing the moderating influence of stakeholder knowledge on the relationship between social reporting and sustainability accounting. The study adopted Mixed Methods Research of survey design. The target population comprised of the factory unit managers and accountants as the key informants, drawn from tea factories of Mount Kenya region. The sample was obtained by simple random and stratified sampling techniques. Questionnaire was the main data collection instrument. Data analysis entailed simple binary and hierarchical multiple logistic regression analysis using SPSS. Study results were presented in frequencies, percentages and skewness for descriptive and binomial regression output for inferential statistic. The study found out that tea factories practice social activities that they incur costs which were treated as overhead costs and benefits were derived by tea factories. There was a statistically significant influence of social reporting on sustainability accounting; which was insignificantly moderated by stakeholder knowledge. The study findings were of significant to organizations' strategies to respond to social externalities which in accounting terms affect the organizations profits in the long run. The study recommends tea factories adopt an integration of social reporting and financial reporting.

Keywords: Sustainability Accounting, Social Reporting, Stakeholder Knowledge, Tea Factories

INTRODUCTION

Conventional Accounting has continued to dominate the field of accounting among theorists, ideologists and practitioners for as long as the age of accounting. It is clear that traditional accounting and liberal economists lay emphasis on the interest of the suppliers of capital to an organization [1]. The main aim of this fundamental focus is to ascertain the measurements of financial performance of an organization based on its asset capacity and claims against what the business owns. Accountants are on the struggle to report higher profit as a sole indicator of an organization's success. Ceteris paribus, purely concentrating on profits means neglect of sources of resources which are scarce. This translates to environmental deteriorations and which human welfare is based [1].

Van Noordwijk [2] conducted a study in oil and gas companies in Indonesia and found a positive relationship between company social undertakings and economic performance. He further found that employment of costs towards the environment conservation; are associated with social performance of the company to obtain its legitimacy from the larger community, this being a contrast of governments efforts in introducing programs that try to foster legitimacy of an organization to the community. The organization has no other choice but to engage in reporting the social and environmental engagements. Generally, the externalities have an impact on financial performance of an organization [3]. This is further affirmed by Dana [4] that non-inclusion of information on externalaties cause incompleteness in the financial performance so reported of an orgainization. However [5], points out that Spanish concessinaries provide a low quality level of environmental reporting and only do so because of administrative reforms.

In the African context, studies have been conducted to explore the impact of Social Accounting on organizational activities. Onunze [6] found out that social accounting reveals the impact of organizational development

activities in the community in Nigeria even though the technique of social accounting is not so common in the country because stakeholders are not adequately informed on the effectiveness and efficiency of reporting audit and accountability information. The level of environmental disclosures is specifically low among listed manufacturing companies in Nigerian Stock Exchange (NgSE)[7]. Human Resources are drawn from the society and need to be carefully accounted for in a calculated step since they drive all other resources in the organization[8]. The use of social accounting approaches improves transperancy, accountability and compliance in the organization and encourages the integration of social objectives into the strategic plans.

Kenya being among developing country has not been an exception in the field of Social and Environmental (SEA) Reporting which is more done in developed countries and African developing countries. Mwangi & Oyenje [9] found out that CSR is of merit and that firms involved in manufacturing, construction and allied sector of the Nairobi Stock Exchange (NSE) practice CSR. The activities found to be most practiced by the manufacturing and construction firms were community welfare, staff welfare and environmental conservation. A further study of firms in NSE of Kenya supports this that actually firms are engaging in SEA Disclosures [10]. The study conducted by [11]. Established that companies commit part of their profits in long term projects, for example, support of schools in construction of buildings, creating scholarship programs, putting up medical health centers for its employees, sponsoring sporting activities, and striving for continuous product improvement.

These studies have revealed that accounting world is changing face. They have layed emphasis on the SEER which aim at disclosing accountability of an organization to its stakeholders and the environmental commitment. While however the discipline still remains dummy in most organization, some scholars have posited for its being made compulsory with adoption of a unifying standard world wide. This has been advocated by United Nations Environmental Program (UNEP) in collaboration with World Bank (WB). The underlying relational being creation of legal framework for SEA reporting. Organizations are practising SEA reporting with three main motives in mind; legitimacy motive (image bulding), sustainability (altruism), and bottom line (profitability) [12]. In all the studies since 1980s when intensive Social Accounting began, there has been little attention to explore social reporting beyond the normal expectations of reports on conventional financial performance of organizations and enterprises and influence of the social parameters on sustainability accounting in food processing industry beyond secondary data extracted from listed companies in stock markets. This forms the aim of the research in the agricultural sector of tea sector in Mount Kenya Region which draws a lot of its resources from the environment and labour from the social parameters.

Statement of Problem

Studies have been conducted advocating for the inclusion of the social issues into annual reports in order to improve financial reporting to cater for stakeholder values [13]. The study conducted by on Bangladesh companies showed merits of environmental accounting and environmental reporting to organizations. Lunga *et al.* [14] conducted exploratory study on companies listed on Euronet Stock Exchange (ESE) on quality of SEA and finds it's improving [3] including its efficacy. This has led to social accounts being created to realign the reporting of SEA with emergence of international bodies like Global Reporting Initiative (GRI) that shows format of preparation of SEA to supplement International Accounting Standards Board [15] formats.

In Kenya, SEA practices have been noted [16]. Social Accounting Matrix (SAM) has hence emerged from such integrations [17] to form Integrated Economic Accounts. Several studies have further been conducted on companies listed in Nairobi Stock Exchange to differentiate conventional accounting from SEA and its relation with financial performance [9]. Social accounting and profitability show mixed results according to [20] who studied SEA in oil industry in Kenya. Other studies [18, 19] have explored on factors influencing SEA and reporting in which stakeholder value, ethical practices, ownership structure [19], value creation [21] have been found to be influencing factors. National Environmental Management Authority (NEMA) has outlined regulations with which organizations need to comply with environmental issues [22, 23]. However disclosure of social aspects and environmental issues of economic activities still remains voluntary.

The trends in the previous studies are the use of secondary data derived from stock markets. Most of these studies are skewed towards construction and manufacturing companies. Little attempt if any has been made to use primary data from stakeholders in ascertaining social accounting. Further, a gap still remains on the influence of methods of reporting on sustainability accounting as moderated by stakeholder knowledge. This study will hence be carried out to address this gap by using both primaries in order to fill the gap.

Objective of the Study

The specific objectives of the study were to:

- establish the relationship between social reporting and sustainability accounting
- Determine the moderating influence of stakeholder knowledge on the relationship between social reporting and sustainability accounting.

Research Hypothesis

The research aimed to test the following hypothesis:

- There is no significant relationship between social reporting and sustainability accounting
- There is no significant moderating influence of stakeholder knowledge on the relationship between social reporting and sustainability accounting**.**

LITERATURE REVIEW

The study conducted theoretical and empirical review of literature. Theoretical review was anchored under Shareholder theory and Stakeholder theory while empirical review was terms of sustainability accounting, social reporting and stakeholder knowledge.

Shareholder Theory

The theory lays much emphasis on reporting to the shareholders alone in reference to profits. It only focuses on the shareholder as the sole party affected by the organization's economic activities. Shareholders want the managers to maximize value towards their interest [24]. However, such values are threatened during great economic depressions. Shareholder is just one of the many stakeholders that organization need to look at in terms of accounting and that concentration on shareholders is done at the detriment of other stakeholders. Hence the study reviews stakeholder theory in the next section.

Stakeholder Theory

Moriarty [25] stresses on stakeholder democracy in the aspect of the firm's control and governance in the community. His argument is that managers need to put aside skewed cognitive self-interests and plan for the distributive objective of balancing interests and wellbeing of all stakeholders [26] of the business by allocating benefits to them. It is found out that most firms' actions are in consistency with the predictions of stakeholder theory [27]. Such actions augment Social Corporate Performance (SCP) that in turn leads to improved financial performance of firms [28]. In as much as stakeholder theory increases SCP, it is anonymous with CSR theory [29] cited in[30].

Stakeholder theorists [31] emphasize that stakeholder theory is simply for managerial purposes. It is an instrument for measure of how to run a firm and as well a standard for evaluating the manager's decisions. Such decisions are made inclusive of accountants. On the other hand, all firms bear social obligation to manage all stakeholders despite whether or not they have expertise. This makes stakeholder theory a practical theory [32] since well treated stakeholders share the organization's valuable information which transforms to good attitude hence loyalty. Loyalty will mean that there are stable profits in every financial year.

For the purposes of disclosures in accounting, this study pinpoints more on stakeholder theory that was described by [33] as supporting the inclusiveness of several stakeholders in a bond with the organization [34]. It is therefore sole responsibility of accounting is to relay information in addressing stakeholder's risk management [32].

Sustainability Accounting

Sustainability is a concept that encompasses both present and forthcoming generations which envisages that the needs of the people be met. The needs which go beyond normal profit are both social and environmental [35]. Sustainability hence entails meeting the needs of the present generation without interfering with the quality of life of the future generations. Sustainability accounting is a term used to refer to gathering, analysis, interpretation and communication of information related to sustainability of an organization's financial and economic dealings [36] and the purposes of such information to those who bear interest in them [37]. According to [35] sustainability accounting has materialized from the philosophical debates and has emerged from conceptual developments in the field of accounting[36]. This is both an extension of conventional accounting and a new accounting field in entirety [38].

Traditional system of accounting is a sticker of internal inventory and flow of financial information and value on the statement of business position and profits and loss on statement of comprehensive income [39]. These internal reporting relates to the shareholders alone. Parkin *et al.* [39], further states that sustainability accounting reports shows costs and benefits accruing from performances on economic, sociocultural and environmental engagements. The magnitude with which stakeholders continue to pile up pressure in relation to organizational responsibility disclaimers, offer a good incentive towards organizational sustainability, to a much extent lead to effectiveness. Such pressures are

guiding organizations to put in strategic management and sustainability reporting for stability in offering healthy and stable products [14]. The 2012 United Nations Conference on Sustainable Development (Rio+20) further asserted that sustainability reporting in general is an enabling factor for businesses to foster Green Economy [40].

Sustainability Accounting can be categorized into two: Internal Sustainability Accounting (ISA) and External Sustainability Accounting (ESA). The ISA creates clear visibility between the linkage of unseen costs and benefits and those of financial performance within the context of the institutional operations [39]. ESA on the other hand deal with externalities which are not covered in the organization's financial accounts.

Sustainability accounting takes dimension of economic feasibility while incorporating social responsibility aspects and environmental sensitivity [35] in which proponents are putting pressure for better quality of information regarding sustainable practices [41]. The three proponents are not cost-free but bear economic trade-offs and opportunity costs between each other's contents. The social element and environmental components still carry economic viability [42] hence it is important that accountants consider accounting sustainability as part of strategic and routine decision making [41].

Accountants, especially the management accountants, have a role to facilitate decision making at the strategic level management [41]. Annually throughout the centuries, the management accountant has had his role skewed towards financial disclosure, taxation and auditing which is internally related to the internal control of the organization. This function sidelines the sustainability in accounting to the externalities. In order to achieve this, accountants can use such tools as triple bottom line disclosure, EMAS [41], and balance scorecard[43], techniques which are also confirmed by[44] as workable for accountants towards measuring sustainability accounting. The management accountant's role as influencer of decision making is one enough a strategic sustainability focuses. While participating in strategy formulation, mission statement and vision declaration of the organization, management accountants need to play an active role in sustainability accounting right at this point [45]. The organization should hence develop concrete goals towards achieving sustainability accounting [46]. Numerous reasons exist justifying the need for accountants' engagement in sustainable development. First, new jurisdiction advancing towards sustainable development for organizations, secondly, the global pressure from international leaders pushing for organization's sustainability knowledge, and thirdly is the unwavering call for accountants to put in forefront the practices of sustainable development [47].

Social Reporting

Social reporting entailed the preparation of information concerning organization's social, environmental, community and other stakeholders' activities. Such social accounts contain a mix of both quantifiable and non-financial information and descriptive non-financial information; apart from the financial information itself that dominates the traditional accounts [48]. Social and environmental accounting is a term which has seen evolution in its definition since it was first coined by Linowess in 1968 when he defined "socioeconomic accounting" in an attempt to bring in new facets of accounting which include the aspects of sociological, political and economics of accounting whose curvature surpasses the conventional accounting [49]. The term social accounting was used synonymously alongside other terms like Corporate, Social, Ethical and Environmental Reporting (SEER) [50], social and environmental accounting, corporate social reporting, non-financial reporting; and entailed the act of communicating the impacts of an organization's economic impacts to the society and the environment to a specific group of interested group of people in the society and to the entire society [51], noted by Mwasa, Sira, & Maina [52].

Rob and Jan [53] found that companies need to disclose social information relating to number of employees and the approximate pay, meeting employee needs, concern of disabled employees, arranging for pension, charity and donations. Apart from just reporting on social factors, the organizations need to practically sell in the market safety products, partner with human rights, maintain customer relations and ensure a satisfied workforce, be in good relationship with the government, build good rapport with the community and ensure a a condusive working environment for all employees [54]. When employees are incorporated in management development activities, there is an increased value of each individual to the organization in accordance with human resource accounting (HRA) [55]. Measuring human capital including intellectual capital (IC) [56] is of merit in reflection of competitive human capital and being strategic which is achieved by valuing and reporting for it in financial terms [57]. The organizations need to report on human capital related matters like training and development [58].

Stakeholder Knowledge on Accounting Reporting

Individuals and/or group of individuals bearing the likelihood of affecting or being affected by the business activities of the organization are the stakeholders of that organization [39]. Stakeholders share valued information which disintegrates into purchasing of products (the customers), provision of incentives (the community), provision of funds and good financial terms (the financiers), holding of stock and having direct interest to the organization (the shareholders), putting concerted effort within the organization on assigned responsibilities (the employees) [30]; analyzing and making information available in discernable form (financial analysts) [59]. It is further notes that reporting to stakeholders on SEA pools together the resources and efforts [60] of the stakeholders to the organization's achievement of its objectives. The stakeholders hence relate to each other in one way or another while interacting to the organization in the way of attitude [26]. It is important to include into the financial reports the information to which all of them have interest.

Stakeholder knowledge here is taken by the study to mean the awareness that the stakeholders have about SEA and disclosures. The awareness of how the components of social accounting, environmental accounting, and disclosures are good influence of what the organizations choose to disclose to the interested parties [61]. This means a vast knowledge of such knowledge would lead to widespread reporting of SEA. The awareness is very well intensified when done the media [61], although, media reports both negative and positive impacts of the organization which still information required by the stakeholders. Presence of legal provisions may also lead to creation of awareness of SEA among stakeholders [62]. Lack of knowledge by awareness may hence limit the extent to which accountants will report on SEA [63].

Conceptual Framework

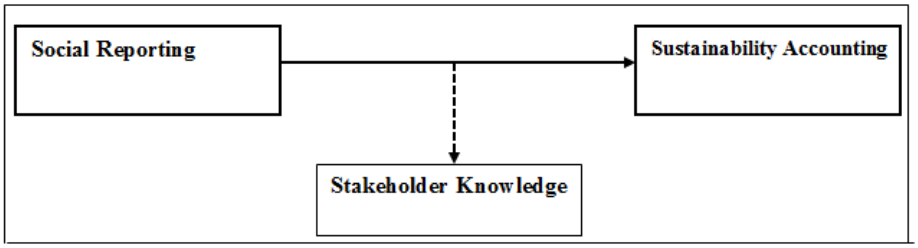

Fig-1: Conceptual Framework (Relationship between social reporting, stakeholder knowledge and sustainability accounting)

RESEARCH METHODOLOGY

Traditionally, empirical accounting researchers have either opted for the basis of quantitative or qualitative methodology, triangulation, or mixed method designs during the stages of collection, analysis, presentations and interpretations of accounting research data [64]. Researchers like [65] after undertaking theoretical review found out that mixed methods need checking for validity and reliability of research data at all stages. Webb *et al.* [66] in his unobtrusive measures found very robust meritious outcomes of adopting mixed method designs which includes improving validity of constructs.

The study adopted Mixed Method Research (MMR) design which was coiled into existence approximately the year 2000[67]. Some researchers like [68] have also referred to MMR as the third methodological movement which was gaining imminence use among researchers. Adoption of MMR for this study was justified by the fact that it provided greater discernment [69] in the understanding of SEA Accounting and Reporting and Stakeholders while determining their influence on Sustainability Reporting; assisted in obtaining mass knowledge in order to draw informed conclusions and arrive at future research areas as the researcher was not be pegged on one research design alone [72, 71]. In this context, the study found it even better to term MRR as Mixed Method Accounting Research (MMAR) [70].

MMR did away with the weaknesses that would have been encountered when singly working with quantitative or qualitative research designs [73] which bore other rationales like the respondent's enrichment, integrity in measurements, and improving significance [71]. The study further narrowed down to two kinds of MMR: convergent parallel MMR [74] which helped to collect and collate quantitative data with qualitative data[75]; and embedded MMR QUAN(qual) [75] in (Creswell, 2014) which accommodated collection of quantitative and qualitative data at the same time[69]. The quantitative research was used to towards analyzing the objectives that led to either reject or accept the hypothesis while qualitative research supported the hypothesis [76]. It is noted by [77] that there has been paradigm shift from a conventional framework to positivist research where scientific model was tested and inferences made, this was based on quantitative research. The study was endeavored to get the stakeholder opinion and attitude towards SEA accounting and reporting, this could only be achieved by applying qualitative research method [78] which captured the

reality in details in that some of the social and environmental factors like human beings and ecological issues were observed in their natural settings [61]. Further qualitative research was emic in nature [79]. Emic kind of research reveals unique opinions of the society [61] which this study looked at social factors in social accounting.

The study further used survey strategy that enabled the researcher to get the same type of data from a large group of respondents in a standardized manner and checked for the pattern trend in the data that assisted generalize [80] the research findings to the population[81]. Survey strategy is a sub-set of descriptive studies which fitted the study at hand and also linked to deductive approaches that is majorly applicable in business inquiries and management research [82]. Sample survey cemented and facilitated data collection and analysis in group of traits in a population and that large amount of data can be drawn from a vast population with great economy. The study derived information by asking questions [83] from respondents as guided by the research instruments. The survey design was very prudential in collating qualitative data whose analysis is very possible quantitatively using statistical techniques [84, 85,42]. The objectives of this study aimed at finding relationship between variables which was possible to obtain in data collection using survey strategy[21].

Study area

The study was carried in Mount Kenya Region, Kenya. Mount Kenya region encompass five regions where tea is grown. These counties include Nyeri, Meru, Embu, Kirinyaga, Tharaka Nithi, Murang'a, and Kiambu. Tea is grown in these areas in altitudes of 4900 feet to 5100 feet. The climate bears temperatures that range as low as 12^{o}c in June-August and high 27^{o}c in January-March and September-October; with annual rainfall of 500ml-1500ml which favor tea farming. Majority of the people engage in tea farming as economic activity. There is widespread in the tea farming around Mount Kenya Region. Kenya Tea Development Agency and other players in the area have continued to practice social and environmental reporting endeavored at sustainable tea production. With such practices, stakeholders in the area still show little satisfaction of the economic, social and environmental reporting; this informed the choice of Mount Kenya region as the study area.

Sample Size

In order to obtain a sample of tea farmers, the researcher used Nassiuma sample size formula of obtaining a representative of the population. Nassiuma's formula has three factors determining the sample size which included population (N), coefficient of covariance (c), and standard error (e). It is acceptable in most surveys a covariance ranging from 21% to 30% and standard error of 2% to 5% [86].

$n = (Nc\text{^}2) \,/\, (c\text{^}2 + (N-1)\, e\text{^}(2\ \ ))$

Where
n=Sample size
N=Population
c=covariance (coefficient of variation)
e=standard error

Sampling Technique and Procedure

Stratified sampling was applied. The stratified sampling enabled inclusion of all subgroups in the sample [87]. The stratified sampling was useful in supplementing randomization which enhances MMR (both quantitative and qualitative studies) to be undertaken [12]. Stratification was conducted by grouping the respondents into strata called counties. Most of the tea factories were grouped in regions by the tea authorities but the study used strata of counties.

Data Collection Instruments

The research utilized both primary and secondary data. Primary data was obtained using semi-structured questionnaires. The questionnaire was used due to its quick ability to administer and highly convenience the respondents who could fill it at their own free time [88]. Matrix questions in the questionnaire were utilized to measure perceptions on a Likert scale [87]. Questionnaire was fit instrument for a survey strategy in a MMR that this study focus on in which survey was preferred data collection procedure due to its capability of turnaround in data collection which was economical [69].

Data Collection Procedures

The researcher sought authority from the university, which was granted. Using the university authorization letter, the researcher applied for research permit from National Commission for Science and Technology (NACOSTI) as per Science and Technology Act, Chapter 250 of the Laws of Kenya. The government through its advisory institution NACOSTI permitted the researcher to conduct research in six counties which included Kiambu, Murang'a, Nyeri,

Kirinyaga, Embu, Meru and Laikipia. The Government research permit had regulation that the research permit be presented to County Commissioner and County Director of Education for every county mentioned before the researcher embarked on research in a particular county. Go ahead was accorded the researcher by the County Commissioners and County Director of Education for Nyeri County, Kiambu County, Murang'a County, Kirinyaga County, Embu County and Meru County. However, researcher did not conduct research in Laikipia County but did it in Tharaka Nithi County instead, since Laikipaia County rarely has tea industries.

DATA ANALYSIS

Chi-square test of independence was then performed at 5 percent level of significance in evaluating first and second hypothesis. The hypothesis was stated as null, otherwise alternative as outline below:

H_{01}: There is no association between sustainability accounting and social reporting.

H_{11}: There is an association between sustainability accounting and social reporting.

H_{02}: There is no moderating influence of stakeholder knowledge on the relationship between social reporting and sustainability accounting.

H_{12}: There is a moderating influence of stakeholder knowledge on the relationship between social accounting and sustainability accounting.

The null hypothesis stated that a given values of methods of reporting, social reporting and environmental reporting, they cannot predict sustainability accounting while the alternative hypothesis stated that given values of methods of reporting, social reporting and environmental reporting, they variable can assist in prediction of the dependent variable. The analysis of null hypothesis involved computing Chi-square test statistics in finding out the association between independent variable(i) measured on levels of influence and dependent variable(d) measured in terms of sustainability. This is defined by the formula below [103]:

$$x^2 = \sum\left[\left(O_{i,d} - E_{i,j}\right)^2 / E_{i,d}\right]$$

Where: x^2 is the test statistic?

$O_{i,d}$ is the observed frequency of the independent variable (i) at a level of influence and dependent variable (d) at level of sustainability

$E_{i,d}$ is the expected frequency of the independent variable (i) at a level of influence and dependent variable (d) at a level of sustainability

The expected frequency $E_{i,d}$ was calculated using the formulae below [103]:

$$E_{i,d} = {R_i * C_d}/{N}$$

Where $E_{i,d}$ is the expected frequency of level of influence of independent variable (i) and level of sustainability for dependent variable (d?)

R_i Is the total number of observations in the sample at given level of influence for independent variable (i)

C_d is the total number of observations in the sample at a given level of sustainability for the dependent variable

N is the sample size

The counts of the composite scores were determined and the SPSS command 'weigt. In a cross-tabulation, the test statistic was distributed as x^2 on $(r-1)(c-1)$ degree of freedom.

The probability value of the chi-square output was then compared with the predefined five percent level of significance. This was used to test for association between sustainability accounting as the output variable and social reporting as the predictor variables.

The study further explored simple logistic regression to model the relationship between the levels of influence of independent variable on dependent variable's sustainability. Logistic regression is most applied when modelling binary response variables [89] in social sciences. This study involved ascertaining the association of individual independent variable and the dependent variable at 5% level of significance. When the dependent variable follows a Bernoulli distribution and the dependent variable assumes either continuous or categorical values, then it is recommended that such data be analyzed using regression technique [90-92].

The dependent variable (sustainability accounting) was binary and hence could only assume two values 1 and 0 with probabilities $\pi(x_i)$ and $1-\pi(x_i)$ respectively. Hence, the dependent variable (Y) follows a Bernoulli distribution with$E(Y)=\pi(x_i)$; that sustainability accounting is "sustainable."

This meant that $E(Y_i)=\pi(x_i)+\varepsilon=\beta_0+\beta_1X_i$ where $i=1,2,3,\dots,n$

When the above equation was converted to least squares, bounded by range of $0\leq\pi(x)\leq 1$, an equation similar to Least Squares was obtained as $\hat{p}=\hat{\beta}_0+\hat{\beta}_1X_1$ where p was the expected probability that $(Y=1)$ for a given value of (X) and that expected values of Y are asymptotic, then p took the following probability [104] equation:

$$\hat{p}=\frac{exp(\beta_0+\beta_1X)}{1+exp(\beta_0+\beta_1X)}=\frac{e^{\beta_0+\beta_1X}}{1+e^{\beta_0+\beta_1X}}$$

Where exp stand for exponent function, also written as$e$. The above equation was then subjected to logit transformation having unbounded range so as to obtain simple binary logistic regression model as given below:

$$logit[\pi(x)]=ln\left\{\frac{\pi(x)}{1-\pi(x)}\right\}=\beta_0+\beta_1X_i$$

In order to infer the binary regression results, the study used the test statistic with the hypothesis that:

The null hypothesis $H_0: B_1=0$ against alternative hypothesis $H_1: B_1\neq 0$

The influence of single independent variable on the sustainability of the dependent variable was tested at 95% confidence interval and 5% level of significance. The SPSS output for p-value was compared with the 0.05 where p-values less than 0.05 were treated as significant and that the predictor variable significantly influenced the sustainability of the dependent variable. The test was applied in testing the influence of social reporting on sustainability accounting. The p-values less than 0.05 denoted that methods of reporting, social reporting and environmental reporting, individually, influenced sustainability accounting.

The influence of the independent variable on the dependent variable was first ascertained by use of standard multiple regression in which the independent variables were entered into the analysis simultaneously as factors after setting the reference categories of the dependent variable. The moderator and the independent variables were then checked for interactions after which hierarchical regression was conducted to find out the moderating effect at 95% confidence interval and 5% level of significance.

The study adopted multiple logistic regression models below:

$$\boldsymbol{log\left\{\frac{\pi(x)}{1-\pi(x)}\right\}=\beta_0+\beta_1X_1+\beta_2X_2+\beta_3X_1X_2}$$

Where: $\boldsymbol{\beta_0}-is\ the\ constant$
$\boldsymbol{\beta_1,\beta_2,}-logistic\ regression\ coefficients$
$\boldsymbol{X_1}-social\ reporting$
$\boldsymbol{X_2}-stakeholder\ knowledge$

RESULTS AND PRESENTATIONS

Relationship between Social Reporting and Sustainability Accounting

This section presents the analysis of the relationship between social reporting and sustainability accounting. It begins by looking at the financial implication of practicing social reporting by the tea factory. The financial implication is looked at in terms of whether cost is incurred and the benefits gained out of such undertakings. Social reporting was measured in terms of human capital and community outreach. The items that measured social reporting are then analyzed in terms of means and standard deviation in order to determine the degree to which respondents agree with them. Means of means were finally worked out to obtain the single opinion of respondents on social reporting. The counts for means was computed to determine the proportion of respondents perceiving the influence of methods of reporting on sustainability accounting as low, medium or high. These counts were then cross-tabulated with those of sustainability accounting, which were then recoded and weighted to run Chi-square and simple binary regression analysis which was the test of the second hypothesis.

Social Reporting in the Tea Sector

The subsection presents the determination of the value of the independent variable, social reporting. The subsections first begin by looking at the financial implication of the social reporting.

Financial implication was looked under sub-variables human capital and community outreach. The respondents were asked to state in a binary statement whether cost is incurred and benefit is derived from human capital undertakings. The descriptive statistics indicated that majority of the respondents agreed that costs are incurred and benefits derived from the items that measured social reporting; however, they derived benefit from such protection of intellectual property as supported by 80.9% of the respondents. The results of the descriptive binary-response items under human capital are presented in Table-1.

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S.N	ITEM	Financial Implication to the Tea Factory							
		Are costs incurred?				Do you derive any benefit?			
		Yes		No		Yes		No	
		N	%	N	%	N	%	N	
	Tea Factory Human Capital								
1.	Tea factory supports youth and youth affairs	55	80.9	13	19.1	53	77.9	15	22.1
2.	Tea factory create wealth to the community	51	75.0	17	25.0	52	76.5	16	23.5
3.	Tea factory creates and expand employment opportunities	67	98.5	1	1.5	66	97.1	2	2.9
4.	Tea factory facilitate training and development for its employees	67	98.5	1	1.5	67	98.5	1	1.5
5.	Tea factory generates businesses	60	88.2	8	11.8	60	88.2	8	11.8
6.	Tea factory protects intellectual property	1	1.5	67	98.5	55	80.9	13	19.1

The study findings indicated that the tea factory incurred cost towards undertaking the human capital elements which included supporting the youth and youth affairs, wealth creation to the community, employment creation and expansion, development of its employees and business generation. However, it was revealed that the tea factory did not incur cost in protecting intellectual property. This was confirmed by the by the interview schedule in which some FUMs stated that the procedure in processing of tea was predefined and any innovation arose from tea research institutes. It was found out that the tea factory derived financial benefits by undertaking the human capital items.

The study further explored the financial implication of community outreach as a sub-variable of social reporting where the items were measured in a binary-response of yes and no. The descriptive statistics indicated that the items that measured community outreach had the respondents agreeing that costs are incurred and benefits derived. All the respondents (100%) supported that tea factory continuously develop and improve infrastructure and also derive benefit from it as supported by 95.6% of the respondents. The results are as presented in Table-2.

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S.N	ITEM	Financial Implication to the Tea Factory							
		Are costs incurred?				Do you derive any benefit?			
		Yes		No		Yes		No	
		N	%	N	%	N	%	N	%
	Tea Factory Community Outreach								
1.	Tea factory offer education sponsorship	67	98.5	1	1.5	64	94.1	4	5.9
2.	Tea factory have gender balance programs	59	86.8	9	13.2	62	91.2	6	8.8
3.	Tea factory has put in place health facilities and participate in community health care	12	17.6	56	82.4	56	82.4	12	17.6
4.	Tea factory has put up community based projects	66	97.1	2	2.9	66	97.1	2	2.9
5.	Tea factory has constructed recreational facilities	15	22.1	53	77.9	15	22.1	53	77.9
6.	Tea factory has put campaigns on gender vulnerability	18	26.5	50	73.5	51	75.0	17	25.0
7.	Tea factory ensures air quality is maintained	58	85.3	10	14.7	58	85.3	10	14.7
8.	Tea factory has created central services and facilities for the community	61	89.7	7	10.3	62	91.2	6	8.8
9.	Tea factory continuously develop and improve infrastructure	68	100	0	0.0	65	95.6	3	4.4

The study revealed that the tea factories incurred costs in education sponsorship, gender balance programs, community based projects, maintenance of air quality, creation of central services and facilities and development of infrastructure. However, there was an indication that the tea factories do not incur costs on putting up health facilities and community health, recreational facilities and protection of gender vulnerability. The study found out that the tea factory derives financial benefits from all the community outreach items except on recreational facilities.

The mean analysis of items measuring the sub-variable human capital was conducted to determine the extent to which the respondents agreed with the items as being undertaken by the tea factory. The output had a mean of four and small standard deviations for the first to the fourth item indicating that the respondents agreed that tea factories supported youth and youth affairs; created wealth to the community; creates and expand and employment opportunities; facilitated training and development for its employees; the tea factories generate businesses from its operations. The sixth item large standard deviation indicating that the respondents agreed on a varied opinion that the tea factory undertake intellectual property protection. The output indicated that a mean of four and a small standard deviation, showing that the respondents agreed that The fifth, sixth and eighth items; however, had a mean of four with a large standard deviation of 1.180 indicating that the respondents were much divided in their agreement that the tea factory undertook construction of recreational facilities. The items which were measured in a five-Likert scale have the results presented in Table-3.

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S.N	ITEM	N	SD	D	N	A	SA	MEAN	SD
	Tea Factory Human Capital								
1.	Tea factory supports youth and youth affairs	68	2 (2.9%)	5 (7.4%)	8 (11.8%)	36 (52.9%)	17 (25.0%)	3.90	.964
2.	Tea factory create wealth to the community	68	1 (1.5%)	1 (1.5%)	10 (14.7%)	31 (45.6%)	25 (36.8%)	4.15	.833
3.	Tea factory creates and expand employment opportunities	68	0 (0.0%)	0 (0.0%)	5 (7.4%)	31 (45.6%)	32 (47.1%)	4.37	.731
4.	Tea factory facilitate training and development for its employees	68	1 (1.5%)	0 (0.0%)	2 (2.9%)	40 (58.8%)	25 (36.8%)	4.29	.670
5.	Tea factory generates businesses	68	1 (1.5%)	0 (0.0%)	9 (13.2%)	37 (54.4%)	21 (30.9%)	4.13	.751
6.	Tea factory protects intellectual property	68	3 (4.4%)	3 (4.4%)	13 (19.1%)	26 (38.2%)	23 (33.8%)	3.93	1.055

The study revealed that tea factory undertook the human capital items in which costs were incurred and benefits derived. These costs either reduce the profits of the factories or some factories simply budget for them and categorize them under contingency liabilities.

There was an analysis of the items that measured the social reporting elements under community outreach by the tea factory. The output indicated that a mean of four and a small standard deviation, showing that the respondents agreed that The fifth, sixth and eighth items; however, had a mean of four with a large standard deviation of 1.180 indicating that the respondents were much divided in their agreement that the tea factory undertook construction of recreational facilities. The results are as presented in Table-4.

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S.N	ITEM	N	SD	D	N	A	SA	MEAN	SD
	Tea Factory Community Outreach								
1.	Tea factory offer education sponsorship	68	1 (1.5%)	4 (5.9%)	2 (2.9%)	42 (61.8%)	19 (27.9%)	4.09	.824
2.	Tea factory have gender balance programs	68	2 (2.9%)	7 (10.3%)	1 (1.5%)	41 (60.3%)	17 (25.0%)	3.94	.976
3.	Tea factory has put in place health facilities and participate in community health care	68	2 (2.9%)	6 (8.8%)	5 (7.4%)	41 (60.3%)	14 (20.6%)	3.87	.945
4.	Tea factory has put up community based projects	68	2 (2.9%)	4 (5.9%)	1 (1.5%)	40 (58.8%)	21 (30.9%)	4.09	.910
5.	Tea factory has constructed recreational facilities	68	5 (7.4%)	9 (13.2%)	5 (7.4%)	34 (50.0%)	15 (22.1%)	3.66	1.180
6.	Tea factory has put campaigns on gender vulnerability	68	19 (27.9%)	28 (41.2%)	11 (16.2%)	6 (8.8%)	4 (5.9%)	1.93	0.292
7.	Tea factory ensures air quality is maintained	68	4 (5.9%)	6 (8.8%)	6 (8.8%)	36 (52.9%)	16 (23.5%)	3.79	1.087
8.	Tea factory has created central services and facilities for the community	68	2 (2.9%)	8 (11.8%)	4 (5.9%)	35 (51.5%)	19 (27.9%)	3.90	1.039
9.	Tea factory continuously develop and improve infrastructure	68	1 (1.5%)	4 (5.9%)	1 (1.5%)	23 (33.8%)	39 (57.4%)	4.40	.900

The study found that the tea factory undertook community outreach activities of education sponsorship, gender balance programs, participation in community health care, undertaking community based projects, air quality control and

infrastructure development. However, the study revealed that the tea factory did little campaign on gender vulnerability and putting up recreational facilities. The findings link up well with the statements that the tea factory commit funds in undertaking the community outreach activities as had previously been discussed.

Summary statistics was then conducted to find the overall respondent's perception of the social reporting items undertaken by the tea factory. The summary statistics in Table 5 indicated that the mean of means of social reporting was four with a small standard deviation of 0.9438.

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Perception	**Frequency**
Mean of means	4.0093
Mean of standard deviation	0.9438
Skewness	-1.2840
Kurtosis	2.3152

The findings had a left skewed distribution (-1.2840) revealing that the respondents agreed that social reporting elements were undertaken by the tea factory.

The value of social reporting was computed as counts after transforming the five-point Likert scale into three-point categorical measure. The five-point Likert scale was in the range (1-strongly disagree, 2-disagree, 3-neutral, 4-agree, 5-strongly agree). The mean of five-point Likert scale was recoded into three-point categorical scale for purposes of running Chi-square and simple binary logistic regression. The level of influence was obtained using three-point categorical scale that was arrived by transforming the Likert values 1-2 to represent Low (1), 3 to represent Medium (2) and 4-5 to represent High (3). The terms "Low", "Medium" and "High" connote the extent of influence of social reporting after which counts were determined. Table 6 indicated that 17.6% of the respondents felt that social reporting had a weak influence on sustainability accounting, 23.5% felt that social reporting had a moderate influence. However, a majority of the respondents felt that social reporting had a strong influence on sustainability accounting. The results are as indicated in Table 6.

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Perception	**Frequency**	**Percent**
Weak	12	17.6
Moderate	16	23.5
Strong	40	58.8
Total	**68**	**100.0**

The study hence revealed that the practice of social reporting in terms of human capital items and community outreach items had a contributing influence in the sustenance of the sustainability accounting. The measure presented in Table 4.17 was the values used in finding the relationship between methods of reporting and sustainability accounting.

Association between Social Reporting and Sustainability Accounting

The strength of influence of social reporting was compared with sustenance of sustainability accounting by cross-tabulating the variables. The results in indicated that the respondents who felt that the influence of social reporting was weak, believed that it does not support sustainability accounting. The respondents who felt that the influence of social reporting was weak believed that sustainability accounting was unstainable (17.6%) none of the respondents believed that it was sustainable. The respondents who felt that the strength of influence of social reporting was strong believed that sustainability accounting was unsustainable (10.3%) but a majority (48.5%) of them believed that it is was sustainable. Generally, majority of the respondents (58.8%) believed that social reporting made sustainability accounting sustainable. The results which are presented in Table-7.

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Strength	Unsustainable		Sustainable		Total	
	Frequency	**Percentage**	**Frequency**	**Percentage**	**Freq.**	**%**
Weak	12	17.6	0	0.0	12	17.6
Moderate	9	13.2	7	10.3	16	23.5
Strong	7	10.3	33	48.5	40	58.8
Total	28	41.2	40	58.8	68	100.0

It was found out that sustainability accounting was much influenced by increasing strength of social reporting. When social reporting is intensified and constantly practiced, sustainability accounting is greatly improved and its sustainability assured.

The relationship for social reporting and sustainability accounting was tested on a hypothesis that there was a significant influence of social reporting on sustainability accounting in tea factories of Mount Kenya region. The null hypothesis was stated as:

$\boldsymbol{Ho_2}$: There was no significant relationship between social reporting and sustainability accounting in the tea sector of Mount Kenya Region

The Chi-square test of independence was run to examine the association between social reporting and environmental reporting. The Chi-square test of independence revealed that the probability values were less than the level of significance as in Table 4.19. The null hypothesis was thence rejected and the study concluded that there was a significant association between social reporting and sustainability accounting as evidence by Pearson chi-square as $(\chi^2_{(2)} = 38.123, p = 0.001)$. The findings were also confirmed by Likehood Ratio value in which $\left(\chi^2_{(2)} = 44.570, p = 0.001\right)$. the output also revealed that linear by linear association between the variables was significant$(\chi^2_{(1)} = 36.588, p = 0.001)$. The results are presented in Table 8.

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	Value	Df	Asymp. Sig. (2-sided)
Pearson Chi-Square	27.901	2	.000
Likelihood Ratio	33.111	2	.000
Linear-by-Linear Association	27.463	1	.000
N of Valid Cases	68		

The study findings hence confirmed that there was a statistically significant association between social reporting and sustainability accounting. This means that the practice of social reporting is assist in communicating social activities of tea factories which hence build sustainability reporting.

The influence of social reporting on sustainability accounting was further explored by running a simple binary logistic regression model. The output in Table 9 confirmed that social reporting had significance influence on sustainability accounting $\left(Wald's\ test: \chi^2_{(1)} = 18.620, p < \alpha\right)$ at five percent level of significance. Further, the simple binary regression indicated that the sustainability odds ratio of sustainability accounting at 95% confidence level for methods of reporting was 9.598 with confidence interval of $(3.436 \leq CI \leq 26.809)$. This means that social reporting was 9.598 times more likely to increase sustenance of pursuit for sustainability accounting than when it is not practiced. The results are as shown in Table 9.

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Variables in the Equation									
		B	S.E.	Wald	df	Sig.	Exp(B)	95% C.I.for EXP(B)	
								Lower	Upper
Step 1[a]	SR	2.262	.524	18.620	1	.000	9.598	3.436	26.809
	Constant	-5.116	1.345	14.481	1	.000	.006		

The model produced is presented below:

$$\boldsymbol{log\left\{\frac{\pi(x)}{1-\pi(x)}\right\} = -5.116 + 2.262X_2}$$

These results were confirmed by the interview schedule in which some accountants asserted that sustainability accounting can only be pursued when to a sustainable level when items of social accounting are practiced by committing costs and the weather benefits are derived or not, the items need to be reported in annual financial reports.

Multiple logistic regressions was run in order to test for the moderating influence of stakeholder knowledge on the relationship between the social reporting and sustainability accounting in tea factories of Mount Kenya region. The output showed that stakeholder knowledge does insignificantly influence the relationship between social reporting and

sustainability accounting $\left(Wald's\ test: \chi^2_{(1)} = 0.204, p > \alpha\right)$ at five percent level of significance while the social reporting significantly influence sustenance of sustainability accounting. The results are presented in Table 10:

Table-10: Moderating Influence of Stakeholder Knowledge on the relationship between Social Reporting and Sustainability Accounting

Independent Variable		B	S.E.	Wald	df	Sig.	Exp(B)	95% C.I.for EXP(B)	
								Lower	Upper
	SR	2.252	.524	18.433	1	.000	9.504	3.400	26.565
	SK	-.090	.484	.034	1	.853	.914	.354	2.360
	SK by SR	-.385	.853	.204	1	.652	.680	.128	3.624
	Constant	-4.864	1.898	6.567	1	.010	.008		
a. Variable(s) entered on step 1: MR, SR, ER.									

The results indicated that it is not mandatory that stakeholders gain accounting knowledge in order for social reporting to be done by tea factories. This means that tea factories and other organizations need to practice social reporting so as to accommodate all the needs that stakeholder require in which this lead to integrated reporting that highly support sustainability accounting.

DISCUSSION OF REULTS

Social reporting was analyzed based on human capital and community outreach which were interrogated in terms of whether the tea factory undertake activities of human capital and community outreach in which costs are incurred and benefits derived.

The study findings indicated that the tea factory incurred cost towards undertaking the human capital elements which included supporting the youth and youth affairs, wealth creation to the community, employment creation and expansion, development of its employees and business generation. Human capital investment takes a significant proportion of costs of operation of a business. These are the labor costs in terms of salary, recruitment, retention, and development of employees [63]. Some studies suggest that the costs of human capital are actually the cost incurred to acquire people and develop employees [94]. When the costing is wrongly done, it disorients the measurement on return on investments by various stakeholders [94]. However, it was revealed that the tea factories did not incur cost in protecting intellectual property. This was confirmed by the by the interview schedule in which some FUMs stated that the procedure in processing of tea was predefined and any innovation arose from tea research institutes. It was found out that the tea factory derived financial benefits by undertaking the human capital items. It has been established that accounting for intellectual property poses challenge to many accountants in its valuation [95]. The tea factories in question lack autonomy; they are managed centrally employing same policies and strategies. This kills room for innovation at factory level and hence need for accounting for intellectual property rights and such intangible asset if not accounted for may cause risk to intent [96]. The intellectual property are provided for under IAS38 but other standards like IFRS and FAS still lack framework of accounting for it.

The study revealed that the tea factory undertook the human capital items which included support of youth and youth affairs, wealth creation, employment creation and expansion, training and development of tea factory employees and business generation. The interview conducted revealed that the elements need to be integrated into the annual financial reports since they are practiced by the tea factories, this was stated by some of the accountants. These studies are consistent with findings by Dewi [2] that studied on companies' response to operational externalities which indicated that companies have social exposure. Organizations derive value from human capital disclosure which can improve company's valuation in the market [72].

The study revealed that the tea factories incurred costs in community outreach activities like education sponsorship, gender balance programs, community based projects, maintenance of air quality, creation of central services and facilities and development of infrastructure. However, there was an indication that the tea factories do not incur costs on putting up health facilities and community health, recreational facilities and protection of gender vulnerability. The study found out that the tea factories derive financial benefits from all the community outreach items except on recreational facilities. The practice of such activities has been found to attract better employees and lower risks of turnover and this enable organizational innovation and growth [98]. These community outreach activities lead to creation of social capital which become intangible resources that a business owe the stakeholders[97].

The study concluded that there was a significant association between social reporting and sustainability accounting as evidence by Pearson chi-square as$(\chi^2_{(2)} = 38.123, p = 0.001)$. The findings were also confirmed by

Likehood Ratio value in which $\left(\chi^2_{(2)} = 44.570, p = 0.001\right)$. the output also revealed that linear by linear association between the variables was significant ($\chi^2_{(1)} = 36.588, p = 0.001$). The study findings hence confirmed that there was a statistically significant association between social reporting and sustainability accounting. These findings are consistent with the results of survey conducted by KPMG [99] on 4100 companies in 41 countries and which also confirmed that social reporting is growing. Study by Mrsik and Kostovski [100]also found that social reporting has influence on sustainability accounting These social elements practised and reported by companies include community outreach activities, employment creation and charity work[100]. Another study has observed that social reporting, apart from benefiting stakeholders, is of importance to the organization since it improves financial performance, leads to reduced cost of oepration, improves commitment by staff, ehance chances of innovation and promote organizational brand[101]. The study also established that there was no siginificant moderating influence of stakeholder knowledge on the association between social reporting and sustainability accounting. This finding is contrary to the Greenwood and Kamoche [102] which stated that social accounting, reporting and auditing is an appropriation for stakeholder involvement in terms of knowledge appropriation.

CONCLUSION AND RECOMMENDATION

The study concluded that tea factories incur costs in undertaking social reporting elements. The study categorizes these costs as social costs. These costs can be reasonably estimated and are hence material in the accounting of an organization. Since the social costs are material and pegged on a future occurrence, the social costs hence according to the study is a contingency liability and need to be considered in the financial reports of the tea factories. However, the study indicated that stakeholder knowledge is not a withholding factor to the practice of social reporting as an influencer of sustainability accounting. Social reporting also leads to benefits both for the tea industries and the stakeholders. The benefits are in form of community outreach and human capital development in the tea factories. Since the social reporting practice leads to social benefits, the study also concluded that it leads to social assets. These social assets and social liabilities that this study advocates for inclusion into the annual report for the support of sustainability accounting. Social reporting statistically significantly influence sustainability accounting in the tea sector in Mount Kenya region. Social practice, however, is not hindered by stakeholder knowledge since what matters most is the benefits that the tea industries and stakeholders enjoy from its practice.

The study strongly recommends the practice of social reporting by the tea factories since it is found to affect industries' long run activities. The social practice brings social assets to the tea industries and hence is financially prudent to be reported in the annual reports so that sustainability accounting is assured. Tea industries are also recommended not to do costly activities of educating stakeholders on social reporting since such stakeholder education do not have significant moderating influence on the relationship between social reporting and sustainability accounting. The value creation for stakeholders means that the tea industries value also increases in the long run, hence the strong recommendation for social reporting practice by the tea industries.

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