



Factors influencing the Purchase Intention of Green Packaging among Millennials in Gampaha District of Sri Lanka

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ABSTRACT

Fast moving consumer goods sector is one of the expanding industries that influences on the green marketing issues. This study seeks to understand how the impact of green packaging on consumer purchasing intention among millennial generation in Gampaha District. The main objective is “to identify the factors that mostly influence on millennial consumer’s green packaging purchase intention”. According to comprehensive literature review, the researcher identified 4 variables of purchase intention namely; Product Characteristics, Environmental Concern, Government Role and Demographic Factors. Further, researcher was able to recognize the most enhancing components for some independent variables. Then, examined the hypothesis by using PLS-SEM except the Demographic Factors. Therefore, Education, Income and Gender under demographic variables tested chi-square test, Pearson correlation and significances by using SPSS. The researcher distributed questionnaires randomly to selected sample of 200 respondents selected under the multi stage sampling method according to a proportion within the 8 GN Divisions out of 37 in Kelaniya DS Division in Gampaha District who age between 18 – 35 years. All examined variables determined positive relationship with Purchasing Intention except Gender. However, the outcomes represented that no significant effect of Government Role, Environmental Concern, Income, Gender and Investment of Government under the Government Role but other mentioned variables recorded 95% significant on Purchasing Intention. The study identified that younger generation has an awareness and knowledge about ecological behavior. The implications of this study formed awareness into buying intention towards ecological packaging which can be used by FMCG businesses in Sri Lanka when deigning product packages.

Keywords: *Demographic Factors, Environmental Concern, Government 's Role, Product Characteristics, Purchase Intention*

1. INTRODUCTION

1.1. Background and Research Problem

Nowadays the feeling about to be “eco – friendly” or “green” has grown in a massive way. Many companies are trying to promote their products by labeling their goods in the name of eco friendliness. Therefore, consumers are becoming more sensitive in their purchasing behaviors according to the environmental sensitivity. Environmental aware is a customer behavior or attitudes that is comely to be worldwide in the period of changes in the impression of customer behavior or attitudes. Consumer who are knowledgeable of and interests in ecological problems are called “green consumer”. Ottman (2003) identified that customers obtained eco production when their primary need for performance, quality of product, convenience and also economically were met and when they understood how an ecological product could help to solve the ecological problems.

Green marketing is a worldwide and broad concept in the world, which is a collection of small subject areas in the society. Green marketing attempt to emphasize consumers’ purchase intention (Chen and Chang, 2012). Since the 1980s green marketing has gone through various level, after a comeback in the 1980s green marketing has made a boom in the west from 2000 onwards (Ottman, Stafford and Hartman, 2006). Green marketing is a major concept appear in the latter half of the 20th century which is developed through the environment attitudes (Peattie & Crane, 2005). However, there are five reasons for businesses to develop eco-friendly marketing concept: conformity with ecological pressure, improving corporate images, achieving competitive advantage, go for new markets or opportunities and increasing product value (Chen, Lai and Wen ,2006). Even though Asian consumers have currently become one of the primary targets for international green marketers due to the following reasons: consumers in Asian societies are increasingly becoming aware to the scaring environmental problems (Harris, 2006); and the fast-growing economies in Asia has cause to strongly of financially – allowed consumers across Asia who are willing to spend more than former generations (Li and Su, 2007).

Environmental issues influence on all most all activities in day today lives, then FMCG sector is a significantly huge market in the economy which has to open their attention on eco friendliness to the world (Wanninayake and Randiwela, 2008). FMCG have a high-income level and short life time, increasing amount of packages will remain as waste. FMCG marketing businesses in Sri Lanka use eco-friendly and recyclable packaging and adjust the products to decrease or disallow the environment pollution. According to Chen and Chai, 2010 suggested that investigated how people view the environmental problems and how they behave of that, especially in their attitudes among ecological production or environmental friendly products. There is a world respect approach for waste management, which is “3R Model” then under that model ecological packages can do in three unique ways; Reuse, Recycle and Reduce.

Green packaging industry is progressively expanding over the countries which resulting establishment for businesses who can occur with newly innovative ideas in green packaging at a minimum costly way. However, two main functions achieved by the principles of 4R ID, there are Reduce, Reuse, Reclaim, Recycle and Degradable (Zhang and Zhao, 2012). According to Global Web Index (2018) identified that who are age between 16-21 are more like to pay 58% and age between 22- 35 are able to pay 61% for the eco-friendly production. The global green packaging market size is recorded to reach \$ 207.5 billion by 2022 with a combined annual expansion rate of 5.41% between 2016 and 2022 (Global Green Packaging Market Analysis, 2018). Sometimes it might be there are some barriers of their consumption style, negative perceptions, Low availability, Distrust of green claims and Lack of awareness of eco – friendly productions etc. (Bonini and Oppenheim, 2008).

Every Businesses are to generate profit while assuring their stakeholders, and also achieving to their goals and objectives of firm, they have to consider various factors relating to customers, environment and products etc. The problem is to find out the real motivation and also most influencing factors behind on the customers purchasing behaviors. Nowadays FMCG sector in the Sri Lanka move to ecological friendly way with some specific modifications. According to Ottman & Reilly (1998) identified that 41% of customers do not move to purchase ecological products because of distinguish between their life behaviors and attitudes. Nowadays, purchasing intention is more puzzling and more significant for customers than in the past because of that more attention of the society, more and more businesses are able to accept the ecological responsibility. Ecological products are one of the responses to concern for the environment.

Chan and Yam (1995) examined that an individual's environmental behavior is highly dependent on her/his ecological affect, knowledge and intention. Therefore, customers are becoming more sensitivity to their environmental attitudes, purchases and preferences. Chen and Chai (2010) explored how customers view the environmental problems and how they behave, exclusively in their view regards eco products or environmental friendly products. According to Straughan & Roberts (1999) reported younger were likely to be more sensitive to environmental problems through ecological behaviors. Green purchasing behavior positively correlation among age, income and gender with significantly (Soonthonsmai, 2001). Most of studies focused on the importance of demographic factors like education, income, gender and also age how to affect to the green purchasing intention. Jolibert and Baumgartner (1981) found that green customer was younger and more educated their ecological attitudes was not income related. Higher level of subjective knowledge about ecological behavior were related with higher income but there was no relationship between higher level of greener knowledge and individuals' age, education and gender (Amyx, Denjong, Chakraorty and Wiener, 1994).

According to the Sri Lankan context, The FMCG sector is very influential as its great involvement in the economy besides the familiarity to Sri Lankan customers' life pattern. Nowadays Sri Lankan FMCG

marketing firm's application ecological friendly and biodegradable packaging and also adjust the products to reduce or avoid the environment pollution. Therefore, some researchers identified that ecological products gain some addition value to the consumers and economy in a developing country like Sri Lanka (Samarasinghe. & Samarasinghe, 2013). Wanninayake and Randiwela (2008), reported that eco-friendly products have considerable responsiveness between Sri Lankan customers and also, they are willing to consume something more on ecological products. Under that investigated researcher recognized that the packages are most considerable element rather than others concerning from ecological products. The environmental knowledge and ecological buying behaviors are significantly influence to the economy and perceptions of consumers in Sri Lanka (Samarasinghe. & Samarasinghe, 2013).

Although, this research identified that single consumers have more strongly positive behavior with ecological products than married consumers in Sri Lanka. Because of that, single people have more freedom from their buying decision and more disposable income to consume eco-friendly products in Sri Lanka. Further, that research is also exposed that when considering the gender, Sri Lankan females have more ecological buying behaviors than males. So that it may be caused by their emotional response and also understanding among environment. According to the Wanninayake and Randiwela (2008), suggested that demographic variables have not any significant relationship with ecological buying intention in Sri Lanka. However, Sri Lankan consumers are more willing to purchase and already have good knowledge about green products than past decades. Since there are limited studies conducted within Sri Lankan context. Then this study identified which factors are highly correlate with green buying behaviors among Sri Lankan millennial consumers.

According to this study mainly focuses on the impact of green packaging on millennial consumer purchasing intention. Many researchers argued that environmental friendly production concern with regard to green marketing concept but this study impact of green behaviors consider only under the Fast-Moving Consumer Good sector. Although many of studies focused on whole country to their investigations and do not selected any age limit in the society to the study, however few of researches try to examined under the green purchasing decision and ecological attitudes with regards to special age group. When we are considering different age group in the society under the green behaviors, then results are varied from one age group to other. However, in this research, the main focus will be the FMCG industry and also purchasing behavior for green packaging of millennial generation in 2002 – 1985 (Age between 18 and 35 years) in Gampaha District, Sri Lanka. Finally, the problem which is going to address through this study is; “The extent the factors are influencing on consumer purchase intention towards products with green packaging, with special reference to millennial customers in Gampaha District”.

The main objective of this study is to identify the factors that have the most impact on the millennial consumer's intention to purchase green packaging. The specific objectives are; (a) to determine the terms of influence made by determinants on purchase intention towards green packages (b) to find out the customer awareness on green packaging and (c) to identify the demographic factors like education, income and gender how to affect to the ecological purchasing intention.

2. LITERATURE REVIEW

“Going green” are now extending to the Asian region, then adopt a green lifestyle people need to make certain changes in their day to day life. Green marketing activities are increasing in many countries and these activities have had a significant influence on increment of customer knowledge of green behavior and in shifting customer into buying more ecological products. Ecological packaging is helped in the sustainability of the country. Environmental friendly packaging is a recent phenomenon which has become a rapidly growing trend. Organizations can move to green materials or green packaging, then can achieve consumers' higher level of demands for eco-friendly suppliers. The literature survey has helped to the developed the theoretical framework and hypotheses for all the variables for testing.

2.1. Product Characteristics

Some people do not able to trade off other products attributes for a better environmental, so that the characteristics of traditional goods and services like as the price, quality and brand are still the most important variables that are regarded by customers about green buying opinion (Gan, 2008). Price is one of the major elements of purchasing decisions and also focusing on product price, opinion is the most dependable describing factor in predicting customers' desire to pay for green products (Chyong, Phang, Hasan and Buncha, 2006). D'Souza, Taghian and Khosla (2007), recommended that the confidence on the part of customers whom extended eco production should be ecologically safe and prospect without a need to offering on green product quality and price levels. According to Laroche, Bergeron and Barbaro-Forleo (2001), reported that most of consumers will have to purchase ecological products but at a reasonable price levels and having quality for this consumer wants to be higher educated.

There is increasing evidence among product characteristics and ecological packaging under the green purchasing intention. According to Rayapura (2014), identified that global online customer in sixty countries around the international level, then studied expressed willingness to pay more for ecological goods and services from businesses that are indicated to positive impact on the socially and environmentally. According to D'Souza et al., (2007) reported that when the environmentally friendly products have higher prices and low quality then it affects to the negative concern with the consumer purchasing intention and consumer ecological attitudes.

H 1: There is significant relationship between product characteristics on consumer purchase intention towards Green Packaging.

H 1a: There is a significant relationship between prices on product characteristics towards Green Packaging purchasing Intention.

H 1b: There is a significant relationship between qualities on product characteristics towards Green Packaging purchasing Intention.

2.2. Environmental Concern

Environmental concern is one of most important factors when selecting a product with the green package over another. The responsibility of the customers, recycling and reuse level of customers and environmental knowledge can be identified under the environmental concern. “Environmental concern is rooted in a person’s concept of self and the degree to which an individual perceives him or herself to be an integral part of the natural environment” (Schultz and Zelezny, 2000). Ecological products or green behaviors, products with appropriately encouraging of non –biodegradable garbage or recyclable packaging, customers can provide remarkably to improve the environment quality level of the economy (Abdul- Muhmin, 2007). Environmental knowledge as “a general knowledge of facts, concepts and relationships concerning the natural environment and its major ecosystem” (Fryxell and Lo, 2003). Most of studies reported the how to effect on environmental concern on the preference of products like organic food products (Hoffmann and Schlicht, 2013) washing powders (Kinnear and Taylor, 1973), inexhaustible power (Bang, Ellinger, Hadjimarcou and Traichal, 2000) and cosmetics and toiletries (Ottman, 2003). Environmental attentiveness has been ranked as one of the most special forecasters of appropriate environmental behavior (Grob, 1995).

According to Irawan and Darmayanti (2012), reported that the ecological concern has a significant impact on ecological purchasing behaviors among Indonesian university students and also this study mainly focused on green buying behaviors with young generation and also consider the impact on education level to the purchasing behaviors. Some studies explored that general attitudes and behaviors about eco-products are analytical indirect elements of specific behaviors, as well as ecological concern has no any direct influence on consumer behavior but it is having an instant effect on the consumer perceptions (Bamberg, 2012; Roberts and Bacon, 1997). However sufficient advance education will affect to positive impact on motivation of purchasing level and humans waste handling behaviors in Malaysian consumers (Zen, Noor and Yusuf, 2014).

H 2: There is significant relationship between Environmental Concern of the Customers on Purchase Intention towards Green Packaging.

H 2a: There is a significant relationship between responsibilities of the consumers on environmental concern towards Green Packaging purchasing Intention.

H 2b: There is a significant relationship between recycling & reuse level of the consumer on environmental concern towards Green Packaging purchasing Intention.

H 2c: There is a significant relationship between environmental knowledge on environmental concern towards Green Packaging purchasing Intention.

2.3. Government Role

Government should play the guiding role of the management, through the development of policies and regulations or use economical instruments like tax, subsidies to limit or encourage the production level of designing and processing green packaging behaviors. According to Chukwuma (1998) the most significant variables influencing nature was not the official government policy but the public realization on the green behaviors or ecological problems. Kaman (2008) imply that organizational strategies and government policies and regulatory framework in many Asian countries are being reestablishment to give more attention to huge sustainable development including environmental protection behaviors and increasing social efficiency. Government have to play the managing role of management, throughout the sustainability of regulation and policies or apply the economic indicators to limit of corrigible manufacturers use in production level and processing of packaging in orderly ecological packaging (Zhang and Zhao, 2012). According to Lehner, Popwer and Mont (2011) state that the function of regulations has maintaining and forwarding environmental behavior Regulatory, Economic, Information and Behavioral are four main dimensions of regulation – tool that can be used to encouragement of the environmental behaviors.

According to find out of Pavan (2010), the government have to increase public recognition about environmentally friendly products and also ecological labels by carrying our public attack. In Chicago also consider this situation Rothsten (2011), explored that the especially the quality of government indicators have positive correlation with three local environmental quality indicators. The suggestion of ecological regulations has direct positive outcome with the increasing rules of law (Fredriksson, Per and Mani, 2002). Another study in Dummett (2006), identified that government rules and regulations have become the more powerful and significant correlation on the eco businesses attitudes and ecological manners.

H 3: There is a significant relationship between Roles of the Government on Consumer Purchase Intention towards Green Packaging.

H 3a: There is a significant relationship between investments on government's role towards Green Packaging purchasing Intention.

H 3b: *There is a significant relationship between establishing rules & regulations on government's role towards Green Packaging purchasing Intention.*

2.4. Demographic Factors

Many studies show that the willingness of customers to purchase eco-friendly products is highly related to demographics. According to Makeower (2009) identified that values, knowledge, beliefs, motivation, attitudes and demographics as mainly affected that influence the customer willing to purchase green products especially green packaging section. Dettmann and Dimithri (2007), defined that customers with higher education were more focused in buying ecological food than those with less education. However, Roberts (1996) found that gender had mainly influence on environmental behaviors and also, he identified that females were more likely to buy green products than males but Eagly (1987), identified that male having more negative attitudes than female under the environmental friendly opinions. According to Straughau and Roberts (1999), studied high school students based upon environmentally behaviors and identified that the younger individuals were more likely to be highly sensitive to environmental problems and the demographic variables like gender, age were more significantly with purchasing behaviors.

Chen and chai (2010), recognized that there were no gender differences in ecological behavior among Malaysian consumers. However dominant forms of femininity and masculinity are displayed as each other's opposites, which means that if males do one thing than females do the contrary one to that (Eagly, 1987: Roberts, 1996). Dettmann and Dimithri (2007) identified that women with age 30-45 with children having high disposable income through their income level include ecological behaviors in their purchasing pattern. Soonthonsmai, (2001) impels that income level correlates positively with ecological buying behaviors except for education level. So high income level can influence to high buying behaviors because of that eco-products are more expensive than regular customary products (Follows, Scott and David, 2000).

H 4: *There is a relationship between Education, Income and Gender under the Demographic Factors on Consumer Purchase Intention towards Green Packaging.*

H 4a: *There is a significant relationship between education on demographic factors towards Green Packaging purchasing Intention.*

H 4b: *There is a significant relationship between income on demographic factors towards Green Packaging purchasing Intention.*

H 4c: *There is a significant relationship between gender on demographic factors towards Green Packaging purchasing Intention.*

3. METHODOLOGY

The aim of this research study is to studies the relationships between green packaging and consumer ecological purchasing intention of millennial generation in Gampaha District, Sri Lanka. This study indicating the relationship between the green packaging on Product Characteristics, Environmental Concern, Government Role and Demographic Factors of green buying behaviors on younger consumers. The particular information describes the predictable significant relationship among the variables and also it occurs at the final target, the entire research approaches must be rationalized by validating the correct study approach and methodology of this study.

3.1. Operationalization

Table 1: Operationalization

Variables	Measurement Indicators	Indicators	Sources	Measurement
Product Characteristics	Price	<ul style="list-style-type: none"> Organizations have to charge higher price. It is acceptable to pay some amount for products Feel about production cost with conventionally packaged Willing to spend more money to buying eco products 	Gan (2008), Ahmed, Parmar and Amin (2014), Paul & Rana (2012), Oakland & Porter (2004)	5 Points Likert Scale 1- Strongly Disagree 2- Disagree 3- Neither Agree or Disagree 4- Agree 5- Strongly Agree
	Quality	<ul style="list-style-type: none"> Quality is not considerable thing There is quality reduction in between eco and non - ecological products Quality of the less environment harmful products gain some value to the production When quality increasing it is affect to the market share and profit 		
Environmental Concern	Responsibility of the Consumers	<ul style="list-style-type: none"> Environmental protection begins with me Already taken responsibility for save environment. Mankind was created to rule over the rest of nature Should do what I can to conserve environmental resources 	Jain & Kaur (2004), Kalafatis, Pollard, East, & Tsogas (1999), Yeung (2004), Mansaray and Abijoye (1998),	5 Points Likert Scale 1- Strongly Disagree 2- Disagree 3- Neither Agree or Disagree 4- Agree 5- Strongly Agree
	Recycling and Reuse levels of Consumers	<ul style="list-style-type: none"> Hope to purchase the products with reusable packages Plan to buy the products with recyclable materials 		

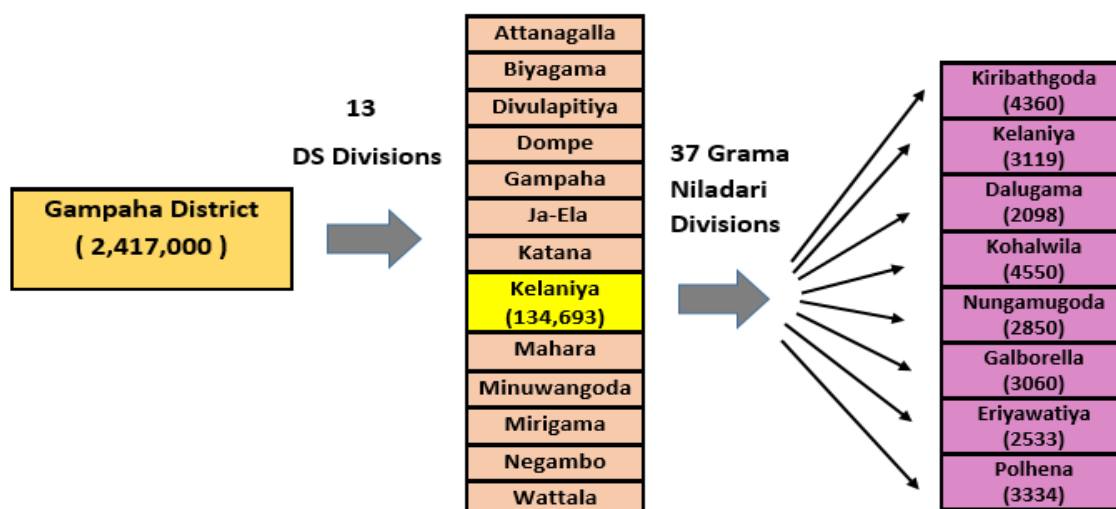
		<ul style="list-style-type: none"> • Make special effort to purchase eco products which I have switched products for ecological reasons. • Recycling and reusing gain some value to the eco products 		
	Environmental Knowledge	<ul style="list-style-type: none"> • Have very good knowledge about environmental issues. • Understand the environmental tags and signs on product packages • Hope to buy less harmful to others and the environment • Use to improve my knowledge about ecological manner by using social medias, daily newspapers and mass medias. 		
Government Role	Investments	<ul style="list-style-type: none"> • Government should subsidies research on technology for recycling waste products. • Schools should essential to add a subject to make students • Environmental awareness programs are conducted to protect the environment • Social advertisements on environmental protection and its benefits to the society are promoted via mass medias, social networks and newspapers by government. 	Wood (1991), Peck & Gibson, (2000), Polonsky (1994), Mani & Fredriksson (2002)	5 Points Likert Scale 1- Strongly Disagree 2- Disagree 3- Neither Agree or Disagree 4- Agree 5- Strongly Agree
	Establishing Rules & Regulations	<ul style="list-style-type: none"> • Should implement environmental rules and regulations on organizations to pack their products in an ecological manner. • Should apply eco-friendly laws on consumers when disposing the packaging they purchased. • Promote new technological and practical ways to improve the ecological production patterns • Should establish specific emission level to the environment and implement tax system • 		
Demographic Factors	Education	<ul style="list-style-type: none"> • Education has higher sensitivity to social problems and environmental behaviors 	Anderson and Cunningham (1972), Powell and Graves (2003), Chen and Chai (2010),	Categorical Data 1. Below Grade 10 2. O/L 3. A/L 4. Undergraduate

			Xiao and Hong (2010), Mahmoud, Mojtaba, Reza, Roozben, Omid and Dariush (2011)	5. Graduate 6. Masters
	Income	<ul style="list-style-type: none"> Consumer with middle income group and upper – middle income level group also integration to those customers who give more attention to environmental perceptions and behaviors 		Categorical Data 1. Dependent 2. 20,000 or Below 3. 20,001 or 40,000 4. 40,001 or 60,000 5. 60,001 or 100,000 6. 100,001 or Above
	Gender	<ul style="list-style-type: none"> Male tends to use activities to establish status and respect whereas females tend to use activities to express harmony and equality. 		Categorical Data 1. Male 2. Female
Purchasing Intention		<ul style="list-style-type: none"> Like to purchase products with an eco-friendly packaging. Hope to move to products with an environmentally friendly package. Consider purchasing ecological packaged products because that cause to less pollution. Consider switching to other brands from my current favourite brand for ecological reasons 	Mostafa (2007), Keller (2001), Chan (2001)	5 Points Likert Scale 1- Strongly Disagree 2- Disagree 3- Neither Agree or Disagree 4- Agree 5- Strongly Agree

3.2. Research Site

This research data gathered from millennial generation in 2002 – 1985 (Age between 18 - 35 years) because of this study mainly focused to identify how youngers are more likely to consume FMCG and their behavior about the green products. The Multistage cluster sampling method was used to select participants for the study because of that it is a type of sampling which involves dividing the population into groups. The researcher randomly selects some specific survey area to finding the sample through the selected Kelaniya DS Division out of 13 DS Divisions in Gampaha District. The total population is in Kelaniya DS Division recorded in 134,693 (Department of Census and Statistics, 2019) in 37 GN Divisions. Out of these 37 GN Divisions in this research select only 8 GN Divisions to the survey.

Figure 1: Sample Proportion



Source: Department of Census and Statistics, 2019

3.3. Population

In this study, the population include of both male and female age between 18 and 35 years who reside within the Kelaniya Divisional Secretary Division in Gampaha District. This population representing the Millennial Generation in Kelaniya DS Division in Gampaha District out of 13 DS Divisions. The total population is in Kelaniya DS Division in Gampaha District recorded in 134,693. (Department of Census and Statistics, 2019). Out of that 37 Grama Niladhari Divisions this research selects only 8 GN Divisions to the survey. All these 8 GN Divisions have 25,904 total populations. Further the research will be based on the Fast-Moving Consumer Good (FMCG) industry. For this study millennial consumers can be recognized as who born in 1985 -2002 years.

3.4. Sample

In this study the sample of 200 respondents will be select within the Kelaniya DS Division in Gampaha District who are age between 18 – 35 years that means who born in 1985- 2002 years. According to the Morgan table, the sample was 378 under the selected population, but this study used only 200 sample to collected the data because of the current social situation as well as the considered the cost and time period. This survey conducted in 8 GN Divisions in Kelaniya DS Division. Then specific area chosen by under the multi stage sampling method according to a proportion out of 200 sample selection criteria. The structured questionnaire distributed by using selected proportionate sample size in the specific GN Divisions in Kelaniya DS Division. Especially under that sample size, one household represent the one respondent only in this study to identify the how to impact of green packaging on consumer buying among younger generation. The researcher took the following sample of respondents from each area.

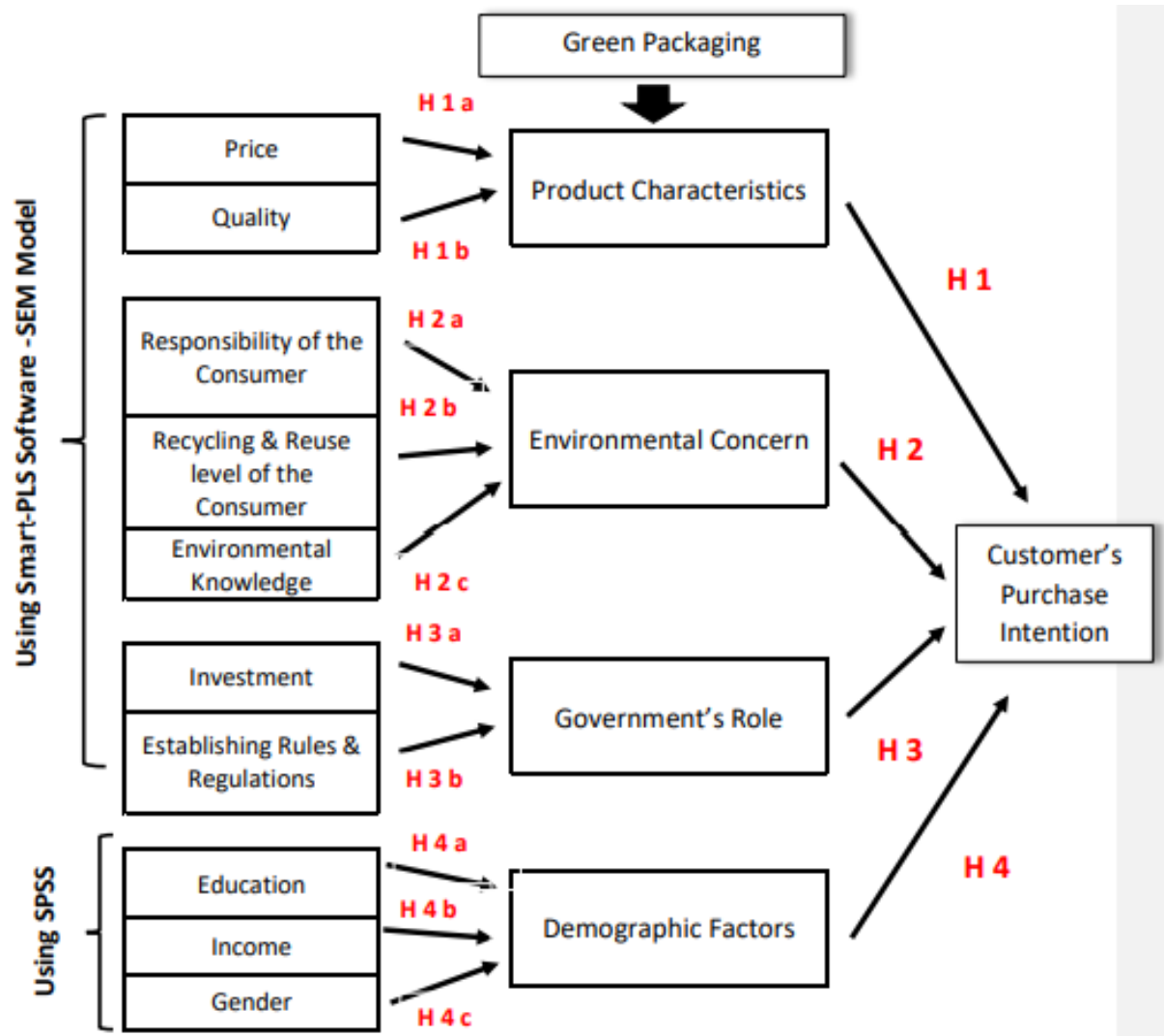
Table 1: Sample selection

Kelaniya DS Division - Total Population 134,693 in 37 GNs.		
Grama Niladari Division	Population	Sample
258 B - Nungamugoda	2850	22
259 B - Kohalwila	4550	35
259 C - Eriyawatiya	2533	20
260 A - Dalugama	2098	16
261 A - Galborella	3060	24
264 - Kelaniya	3119	24
264 A - Polhena	3334	25
267 A - Kiribathgoda	4360	34
Total	25,904	200

Source: Survey Findings, 2020

3.5. Method of Analyzing

Figure 2: Hypothesis testing under the conceptual frame work



Source: Developed by researcher

4. DATA ANALYSIS

4.1. Measurement Model (Outer Model)

Before testing the consistency of the structural model, the outer model was tested for construct reliability and validity of the measurement model using the survey data. This assessment would be done under two steps; First order analysis and the Second order analysis. Initially under first order analysis reliability and validity scores between questionnaire items with indicator variables were generated. Afterwards, under second order analysis validity and reliability scores between indicators and variables were calculated.

4.2. First order analysis

Table 3: Validity and Reliability constructs of first order analysis

Construct	Indicator Reliability		Internal Reliability	Consistency	Convergent Validity
	Loadings	t-Statistic	Composite Reliability	Cronbach's Alpha	AVE
Product Characteristics					
Price					
Q1	0.917593	44.574223	0.950893	0.922487	0.865877
Q2	0.948008	79.391844			
Q3	0.925707	50.910595			
Quality					
Q1	0.893723	41.656553	0.959573	0.943672	0.855846
Q2	0.941130	66.536718			
Q3	0.947279	82.259914			
Q4	0.917377	52.716554			
Environmental Concern					
Responsibility of the Consumer					
Q1	0.897971	36.834834	0.970488	0.959093	0.891669
Q2	0.974864	169.494842			
Q3	0.927150	73.322634			
Q4	0.944864	139.494882			
Recycling & Reuse level of the Consumer					
Q1	0.967729	157.574855	0.965126	0.927792	0.932602

Q2	0.96369 4	114.2453 17			
Environmental Knowledge			0.852094	0.653886	0.742372
Q1	0.87784 0	5.712404			
Q2	0.84506 9	4.653651			
Government's Role					
Investment			0.912045	0.855413	0.775825
Q1	0.91615 5	7.030737			
Q2	0.84016 4	6.495808			
Q3	0.88445 5	6.909024			
Establishing Rules & Regulations			0.955693	0.930399	0.877923
Q2	0.92109 5	47.43453 3			
Q3	0.95441 8	89.31604 9			
Q4	0.93511 5	67.66999 6			

Source: Survey Data, 2020

4.3. Second order analysis

Table 4: Validity and Reliability constructs of second order analysis

Construct	Indicator Reliability		Internal Reliability	Consistency	Convergent Validity
	Loadings	t-Statistic	Composite Reliability	Cronbach's Alpha	AVE
Product Characteristics					
Price			0.950893	0.922487	0.865877
Q1	0.91759 3	44.57422 3			
Q2	0.94800 8	79.39184 4			
Q3	0.92570 7	50.91059 5			
Quality			0.959573	0.943672	0.855846
Q1	0.89372 3	41.65655 3			
Q2	0.94113 0	66.53671 8			
Q3	0.94727 9	82.25991 4			
Q4	0.91737 7	52.71655 4			
Environmental Concern					
Responsibility of the Consumer			0.970488	0.959093	0.891669
Q1	0.89797 1	36.83483 4			

Q2	0.97486 4	169.4948 42			
Q3	0.92715 0	73.32263 4			
Q4	0.94486 4	139.4948 82			
Recycling & Reuse level of the Consumer					
Q1	0.96772 9	157.5748 55	0.965126	0.927792	0.932602
Q2	0.96369 4	114.2453 17			
Environmental Knowledge					
Q1	0.87784 0	5.712404	0.852094	0.653886	0.742372
Q2	0.84506 9	4.653651			
Government's Role					
Investment					
Q1	0.91615 5	7.030737	0.912045	0.855413	0.775825
Q2	0.84016 4	6.495808			
Q3	0.88445 5	6.909024			
Establishing Rules & Regulations					
Q2	0.92109 5	47.43453 3	0.955693	0.930399	0.877923
Q3	0.95441 8	89.31604 9			
Q4	0.93511 5	67.66999 6			

Source: Survey Data, 2020

4.4. Structural Model (Inner Model)

4.5. Assess the level of R²(Coefficient of determination)

This model R square values of the dependent variable recorded as 0.246. It is moderate effect of the model. However, based on the results we can conclude that 24.6 % variation of the Purchasing Intention is being clearly explained by the independent variables of the study.

4.6. Assessment of squared (f²) - Effect Size

Table 5: Effect of size

Variables	f ² Value of PI	Effect Size
Product Characteristics	0.1048	Small
Environmental Concern	0.0509	Small
Government's Role	0.0006	No

Source: Survey Data, 2020

4.7. Assess the Predictive Relevance (Q2)

In this study showed $Q^2 = 0.0882$ the results of cross validations of Q2 values for Purchasing Intention records values greater than zero, that means this model considered to have predictive relevance with a small effect (>0.02).

Assess the significance and relevance of the Demographic Factors (Gender, Education & Income)

Table 6: Demographic Factors relationship testing

Variable	Chi Square value	P value	Pearson Correlation
Gender	0.218	0.147	-0.103
Education	0.012	0.000	0.258
Income	0.001	0.465	0.052

Source: Survey Data, 2020

4.8. Hypothesis Testing

Table 7: Hypothesis Testing

Variable	Hypothesis	Relationship	T Statistics (O/STERR)	Co-efficient	Results
Product Characteristics	H1	PC -> PI	2.150056	0.411112	Supported
	H1a	P <- PC	7.667636	0.750502	Supported
	H1b	Q <- PC	3.332654	0.484535	Supported
Environmental Concern	H2	ENV -> PI	0.12108	0.039323	Not Supported
	H2a	ENV1 <- ENV	4.044365	0.452317	Supported
	H2b	ENV2 <- ENV	4.219019	0.436251	Supported
	H2c	ENV3 <- ENV	2.643597	0.342318	Supported
Government's Role	H3	GR -> PI	0.073786	0.026155	Not Supported
	H3a	GR1 <- GR	0.047497	0.223210	Not Supported
	H3b	GR2 <- GR	2.487158	1.019299	Supported
Demographic Factors	Hypothesis	Relationship	P value	Co-efficient	Results
	H4a	EDU -> PI	0.000	0.442	Supported
	H4b	INC -> PI	0.465	0.049	Not Supported
	H4c	GEN -> PI	0.147	-0.235	Not Supported

Source: Survey Data, 2020

H 1: There is positive relationship between product characteristics on consumer purchase intention towards Green Packaging at 95% significance level.

- **H 1_a:** There is a positive relationship between prices on product characteristics towards Green Packaging purchasing Intention at 99% significance level.
- **H 1_b:** There is a positive relationship between qualities on product characteristics towards Green Packaging purchasing Intention at 99% significance level.

H 2: There is positive relationship between Environmental Concern of the Customers on Purchase Intention towards Green Packaging. But there is no any significant relationship between Purchasing Intention ($t\text{-stat} = 0.121$)

- **H 2_a:** There is a positive relationship between responsibilities of the consumers on environmental concern towards Green Packaging purchasing Intention at 99% significance level.
- **H 2_b:** There is a positive relationship between recycling & reuse level of the consumer on environmental concern towards Green Packaging purchasing Intention at 99% significance level.
- **H 2_c:** There is a positive relationship between environmental knowledge on environmental concern towards Green Packaging purchasing Intention at 99% significance level.

H 3: There is a positive relationship between Roles of the Government on Consumer Purchase Intention towards Green Packaging. But there is no any significant relationship between Purchasing Intention ($t\text{-stat} = 0.0737$)

- **H 3_a:** There is a positive relationship between investments on government's role towards Green Packaging purchasing Intention. However, there is no any significant relationship between Purchasing Intention ($t\text{-stat} = 0.0474$)
- **H 3_b:** There is a positive relationship between establishing rules & regulations on government's role towards Green Packaging purchasing Intention at 95% significance level.

Relationship between Roles of the Demographic Factor on Consumer Purchase Intention towards Green Packaging.

- **H 4_a:** There is a positive significant relationship between education on demographic factors towards Green Purchasing Intention. ($p\text{ value} = 0.000$)
- **H 4_b:** There is a positive insignificant relationship between income on demographic factors towards Green Packaging purchasing Intention. ($p\text{ value} = 0.465$)
- **H 4_c:** There is a negative insignificant relationship between gender on demographic factors towards Green Packaging purchasing Intention. ($p\text{ value} = 0.235$)

5. CONCLUSIONS, RECOMMENDATIONS AND IMPLICATIONS

5.1. Conclusions

Green marketing is a worldwide and broad concept in the world, therefore, consumers are becoming more sensitive in their purchasing behaviors according to the environmental sensitivity. Thus, the present study provides some initial understanding about the importance and impact of green packaging on customer purchasing intention of millennial generation. According to this study identified that all

examined independent variables and their sub variables determined positive relationship with Purchasing Intention except Gender(H4c). However, the outcomes represented that no significant effect of Government Role (H3), Environmental Concern (H2), Income (H4b), Gender (H4c) and Investment of Government (H3a) under the Government Role but other mentioned variables recorded 95% significant on Purchasing Intention from selected 200 millennial consumers who age between 18 - 35 years. However, Under the ages belong to different categories and more persons are in the age between 22-25 years and it is 56% of the total sample and many of respondents consists of majority of females with 68%. Considering collected data many of respondents recorded the highest category 49.5% spend on FMCG per month Rs. 10,001 – 20,000 which is represent the half of the selected sample proportion. Based on the answers given, majority of the respondents stated that “yes” that means they are aware on those type of product while less proportion (34%) has chosen the option “No” option. Then the study identified that younger generation has an awareness and knowledge about ecological behavior. When considering demographic factors relation with Green Purchasing, then education and income reported positive relationship but gender recorded negative relationship between green purchasing intention among youngers in Gampaha District. As well as only education show significant relationship out of these three demographic factors so that, gender and income reported insignificant with ecological purchasing pattern. This finding is somewhat contradictory with the literature where in literature it was found that there is a relationship between gender, education and income and purchase intention. But this was not proved from the findings of the in this research.

5.2. Recommendations

These conclusions would be convenient for Fast Moving Consumer Goods businesses which are determined in Sri Lankan economy and business field to enhancement their profits and market share further by satisfying the consumers’ needs and wants, although focusing newly trending areas in the business field which are emerging accessible the international market place. Considering the outcomes of the study, government should implement these ecological behaviors among student children because they have to more knowledge about environmentally friendly ways and ecological behaviors, it’s very good investment to the future. So that, government can debate with appropriate authorities and add environmental and conservation problems as a subject to the syllabus in schools.

5.3. Implications

The major implications of this study formed awareness into buying intention towards ecological packaging which can be used by FMCG businesses in Sri Lanka. With the intention of motivate the Sri Lankan customers to involve with the eco-friendly product buying decisions, so that the manner emphasize the emotional outlook of the product benefits and also usage. These results have certain implications for both marketers as well as national level policy makers in Sri Lanka. Specifically,

Government have to implement new rules and regulations furthermore because this study mainly identified younger generation more able to protect the environment and also, they like to engage with new concepts under the sustainability of the economy.

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