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SUPPLY CHAIN PLANNING STRATEGIES, SUSTAINABILITY, AND PROFITABILITY OF GRMHC, INC.: FOUNDATION FOR ESTABLISHING A CENTRALIZED COMMISSARY

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Abstract

This study examined the supply chain planning practices, sustainability, and profitability of GRMHC, Inc., with the aim of determining the relationships among these variables as a basis for establishing a commissary. A descriptive correlational research design was adopted, targeting a population of 47 key personnel from GRMHC, Inc. and its six branches. Using Slovin's formula, a sample size of 42 was determined. Findings indicated that the respondents are knowledgeable and confident that GRMHC, Inc. has been implementing activities to promote effective supply chain management—specifically, the coordination of resources to optimise the delivery of goods, services, and information from suppliers to customers, while maintaining a balance between supply and demand. Furthermore, GRMHC, Inc. demonstrated the capacity to generate returns on investment using its available resources, meeting industry standards for catering services and exceeding those for full-service restaurants. The results hold significant implications for enhancing the company's operational sustainability. It is recommended that GRMHC, Inc. regularly assess its practices using the Sustainability Assessment of Foodservice Checklist, including monitoring freezer and refrigerator door alarms or automatic locks, managing the recycling of used cooking oil, and maintaining partnerships with charitable foundations or social enterprises that deliver social impact. Additionally, consolidating the operations of its six branches through a centralised commissary is suggested to further increase profitability.

Keywords: Commissary, Profitability, Supply Chain Planning Practices, Sustainability, Quantitative Research.

INTRODUCTION

Food service is defined as the foremost segment of hospitality industry accounted with approximately \$800 billion-dollar net income. In the United States, average households allotted 50% of their profit to food expenses. In lieu of the consumers' rising demand for food is its increasing demand to know where and how the food is prepared. From a production view, micro producers tend to struggle on space rental as they only offer small batches of food products and gain low profit from it. Wherefore, to optimize sales and cut off expenses, various food firms considered analyzing the management of their supplies, figuring out portioning and packaging, assuring that the quality of food products withstand the delivering conditions, and founding a commissary kitchen - an internal facility which creates meal components or entire dishes and



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thereafter distributes it to restaurant branches (Pennstate, 2016). Unfortunately, Isacsson and Klitte (2020) found that 90% of all startups in Sweden failed to maintain their business operation due to premature scaling. Richardson (2019) then suggested that in setting up a commissary, an analysis of market factors that influence the demand for kitchen space is needed. Specifically, supply chain management, profitability, and sustainability of food industry will first be evaluated and considered in putting up a central kitchen. Moving forward, an increased interest in both logistics and supply chain management (SCM) practices are evident in today's competitive environment in the hospitality field. Thoroughly, Nijaguna and Raghavendra (2015) claimed that the creation of supply chain leads to a better understanding of the whole chain; thus, the implementation of common standards becomes relaxed. Nguyen (2016) found that HaiHa Confectionery Joint-Stock Company in Vietnam has inefficient supply chain management; while Gebreyesus (2016) discovered that MOHA Soft Drinks Industry Ethiopia in Ethiopia is perceived to have efficient SCM practices. Liuspita and Purwanto (2019) added that profitability is also a factor in assessing commercial firms since it gauges the business' ability to generate profits and its economic success which helps in attracting possible investors. In Stockholm, Sweden, Hermann (2015) discovered that 3 out of 12 fast food company owners perceived high profitability due to appropriate pricing and management strategies. Similarly, Popov (2017) stated that Aqua Caffe and Food in Serbia attained high profitability thru formulating an attractive menu and competitive meal prices for permanent and new guests.

Further, Batat (2020) indicated two critical findings in exploring the dimension of food sustainability in the luxury gastronomic industry: (1) Chef's definition of sustainable food experience must encompass both functional aspects (i.e. eco-friendly practices, and sustainable and healthy food) and experiential aspects (i.e. sensory, creativity, pleasure, aesthetic); and, (2) Chef's motivations to promote a sustainability incorporate, in addition to extrinsic factors (planet and people) and intrinsic factors (plate, pleasure and place). In the United States, Reinke (2017) discovered that small firms have vulnerable sustainability caused by weak organization and inability to address barriers. In contrast, Adoukonou (2019) divulged that small firm owner view their business sustainable since they pursued economic, social, and environmental protection goals. Accordingly, they must ensure and invest towards a dynamic managerial strategy which deals to innovation and partnerships.

The small family business, GRM Food Services, now GRM Homestyle Cooking, Inc.

(GRMHCI) started in 2002 from a small 'panciteria' and 'lugawan' in the main streets of Carmona, serving snack meals to local customers. The food stall had a good foot traffic back then because of its proximity to a Jeepney terminal. Considering the good investment return from food vending, GRM Food Services (formerly a single proprietorship) started doing canteen business in 2002. It did not stop its catering services and continued offering packed meals in various LGU-initiated projects and activities in Carmona, Cavite using its own small family kitchen. With supplies coming from Binan Public Market and small local suppliers from nearby towns, they were able to sustain the needs of the small catering business. Likewise, in 2002 it started operating in employees' cafeteria – serving employees of manufacturing companies in industrial parks in Carmona, Cavite, in Laguna. GRMHC, INC. have branches in Binan – Joyson Safety Systems Phil; Cabuyao - ATEC Phils. Inc.; Calamba – NEXEM Technologies; Sta. Rosa - LAMCOR Phils. Inc. and two branches in Tanauan, Batangas –



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Brother Industries Phils. Inc. and Collins Aerospace with the total of around 15,000 customers being served 24/7. GRMHCI maintains an administration office located in Carmona, Cavite that houses the office of the President and General Manager, and the HR, Finance, IT, and General Affairs departments which serve as the support services extended to the main canteen operation. With the increasing scope of canteen operation, the company was incorporated in 2014. Each of the 6 branches maintains its own kitchen provided by the client company. The six (6) branches operate independently. Procurement is being handled by the branch manager - the menu plan dictates what supplies are to be purchased from suppliers. They have their own control of the raw materials, stocking, usage, and management of the inventories. Expenses are not being monitored. Wastage has no control. A commissary appears to be the synergistic solution to the uncoordinated and inefficient operation of the 6 branches of GRMHC, INC. The commissary food service system centralizes food procurement, food production, and food is transported to satellites (receiving kitchen) where it is served to customers. Prepared food may be stored frozen, chilled, or hot-held. Advantages of this system include lower food and supply costs, purchasing power, ingredient control is improved, and lower labor costs. However, the disadvantages include high initial capital investment, transportation costs, and perceived loss of quality and food safety problems. Based on the aforementioned studies and scenario, a study on the supply chain planning practices, sustainability and profitability of GRMHC, INC. was conducted for the purpose of determining the relationship between the variables as basis for putting up a commissary.

METHODS

This study on supply chain management (supply chain planning practices), sustainability, and profitability of GRMHC, Inc. used the descriptive-correlational research design. According to Gravetter and Forzano (2012) as cited by Tanyag (2018). The population of this study consisted of 47 key personnel of GRMHC, Inc. and its six (6), branches handling key positions. Using the Slovin's formula, a sample size of 42 was arrived at. Actual selection of the respondents was done using stratified random sampling technique. The respondents as proportionately distributed were as follows: to wit; GRMHCI management (5), Joyson Safety Systems Phils. Inc. (5), ATEC Phils. Inc. (5), NEXEM Technologies (5), LAMCOR Phils. Inc. (5), Brother Industries Phils. Inc. (9) and Collins Aerospace (8).

Based on the review of related conceptual literature and research articles, a 3-part researcher made questionnaire was constructed for the purpose of generating the needed primary data. Part I focused on the supply chain management planning practices of GRMHCI, Inc. and its six (6) branches which was measured using the four-point Likert scale such as (4 = 3.25 - 3.99) Strongly Agree, (3=2.50 - 3.24) Agree, (2=1.75 - 2.49), Disagree, and (1=1.00 - 1.74) Strongly Disagree. Part II covered the sustainability of the business operations of the corporation. In this regard, the level of Sustainability Assessment of Foodservice Checklist as modified was used (Da Costa Maynard, Zandonadi, Nakano, & Botelho, 2020) which was measured using the four-point Likert scale such as (4 = 3.25 - 3.99) Strongly Agree= Very High, (3=2.50 - 3.24) Agree=High, (2=1.75 - 2.49) Disagree=Low, and (1=1.00 - 1.74) Strongly Disagree=Very Low. Part II dealt on the profitability of the corporation and its branches.

The questionnaire underwent validation by a panel of experts - a researcher, a statistician, and a businessman, who perused over it and offered some suggestions for its improvement. Further,



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the tool was subjected to a reliability test using Cronbach Alpha resulting in reliability indices of 0.922 for supply chain management planning practices and 0.930 for sustainability of business operations. Notably the researcher, being the president of GRMHCI, Inc., explained the purpose of the study to the respondent-personnel and elicited their cooperation to participate in the process of data gathering. She personally administered the survey questionnaire and retrieved the same immediately after its accomplishment to ensure 100% retrieval rate.

Thereafter, the data were coded and encoded in Excel format then sent to the statistician for statistical treatment and initial analysis. Likewise, the statistical tools used in the treatment of data are as follows: Weighted mean was used to determine the supply chain management planning practices and level of sustainability of GRMHCI, Inc., and Pearson Product Moment Correlation was utilized in determining the relationships between supply chain management planning practices and level of sustainability; between supply chain management planning practices and profitability; and between level of sustainability and profitability.

RESULTS AND DISCUSSIONS

Discussion of the supply chain planning practices, sustainability, and profitability of GRMHC, Inc.: basis for putting up a commissary is presented in the succeeding tables and textual presentations:

Table 1. SCM Supply Chain Planning Practices of GRMHC, Inc.

	Table 1: Belli Buppiy enam Flamming	<u> </u>	tices of Giv	ivilia C, inc.		
In	dicators Weighte Verbal Rad Mean	Inte	rpretation	nk 1.	The	
co	mpany defines its plan using planning and 3.12	Agre	e 10 statist	tical forecastir	ng, for	
ex	ample, based on historical data.					
2.	The company generates a plan aligned with seasonal	lity	3.21	Agree 7 and	l prod	luct
	life cycle trends.					
3.	The company's key personnel agree on an inventory	3.27	Strongly Ag	ree 6 strategy	, like	raw
	materials inventory, etc. for the GRMHCI 6 branche	es.				
4.	The company key personnel agree on the safety s	tock 3	.43 Strongly	y Agree 1 wh	nich is	an
	additional quantity of an item held in the inventory	to red	ice the risk t	hat the item w	vill be	out
	of stock.					
5.	The company key personnel agree on the reor	der p	oint and 3.	36 Strongly	Agre	e 2
	replenishment order.					
6.	The company ensures that it balances excess at indi	vidual	branches	which occurs	when	the
	projected demand is greater 3.17 Agree 9 than the sa	afety s	tock at a cer	tain point in ti	me.	
7.	The company ensures that it balances shortage at S	trongl	y Agree ind	ividual brancl	nes wł	nich
	occurs when the projected demand 3.31 5 is less than					
8.	<u> </u>	osts ir	3.33 Strong	ly Agree 3.5	line v	vith
	budget guidelines and volumes of business.					
9.	1 · · · · · · · · · · · · · · · · · · ·			<u> </u>	ll dem	and
	increases and balance 3.19 Agree 8 worker capacity		naterial leve	ls.		
1	Decisions are made by evaluating financial trade-off			\$trongly Agre	e	
m	aximize revenue and optimize inventory management		3.33			3.5
				Strongly Ag	gree	
	Average		3.27			
	. 1. 5 11 1 1 1 1 1 1 1 1	1.	1.1		. 1	

As presented in Table 1, the respondents 'strongly agreed' with an average weighted mean of 3.27 to the supply chain planning practices of GRMHC, Inc. This implies that they were aware and confident that GRMHCI had been undertaking activities to promote effective management



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of their supply chain which involves the process of coordinating assets to optimize the delivery of goods, services, and information from supplier to customer, balancing supply and demand. The study's conclusion that GRMHCI had been undertaking activities to promote effective management of their supply chain which involves the process of coordinating assets to optimize the delivery of goods, services and information from supplier to customer, balancing supply and demand finds support in the study of Gebreyesus (2016) which states that MOHA Softdrink Industry in Ethiopia was perceived to have an efficient SCM. SCM strategy influences their internal organization particularly their SC and organizational performances. Inclusion of SCM is a matter of survival in the current competitive market in food and beverage industry. This study further indicated the effects of a strategic SCM as to wit: (1) efficient delivery service, (2) effective production control, (3) organized inventory management. It can also be considered during decision-making process since implementing SCM practices improve the business operational performance. Therefore, to foster organization performance, emphasis on SCM measures must be given due emphasis (Gebreyesus, 2016). On the other hand, Singh and Akoijam (2020) claimed that ineffective supply chain management is accountable for the food wastage in the locale. Nguegan and Mafini (2017) identified seven problems in regard SCM as to wit (1) human resource management, (2) technology, (3) facilities, (4) supplier relationship management, (5) customer relationship management, (6) regulatory factors, and (7) logistics and transportation. Consequently, their determination of the problems surrounding SCM aid them in addressing their firm's logistic issues and improving their performance.

Table 2. Level of Sustainability of the GRMHCI Business Operation: Water, Energy and Gas Supply

Indicators	Weighted Mean	Verbal Interpretation	Rank
1. The company has goals for the rational use of water, such as the use limit per activity (for example: for each meal served, 10 liters of water are spent).	2.90	High	11
2. The company performs preventive maintenance of the plumbing.	3.29	Very High	1.5
3. The company, in case of a water leak, performs immediate repair.	3.24	High	4
4. Employees verify that taps, when not in use and at the end of the service, are closed (note: confirm with the employee).	3.21	High	5
5. The pressure of kitchen faucets, washbasins, and bathrooms is regulated and limited to allow water savings.		High	9.5
6. The water reservoir is adequately kept covered and conserved, and is free from cracks, leaks, infiltrations, peeling, and other defects.	3.26	Very High	3
7. The company does not use running water to melt ice in sinks or thaw food.	2.81	High	13
8. Employees remove dirt without water from utensils before putting them in the washing machine.	2.50	High	14
9. When cleaning floors, the water flow is interrupted when it is not necessary to use it.	2.93	High	9.5



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10. The company has reduced energy expenditure by at least 15% in the last six months, or 30% in the previous 12 months (see history of energy expenditure)	2.83	High	12
11. The refrigerator and freezer doors have audible alarms for open doors or automatic locks.	2.44	Low	15
12. The temperature of refrigerators, cooling chambers, and freezers are adequate and has a monitoring record.	3.14	High	6
13. The company performs and documents the maintenance recommended by the manufacturer for electronic devices to ensure that all equipment is	3.29	Very High	1.5
functioning correctly and maintains energy efficiency levels.			
14. The company cleans the air cooler filters with suitable detergents or contracts a third-party company for this service and changes the replaceable filters according to the manufacturer's guidelines.	2.95	High	8
15. The company has documented targets for reducing the use of liquefied petroleum gas.	3.10	High	7
Average	2.99	High	

As revealed in Table 2, the level of sustainability of GRMHCI business operation along the category of "water, energy and gas supply" was 'high' with an average weighted mean of 2.99 as rated by the respondents. This implies that the company, as seen by the respondents, was cognizant of and actively involved in the practices that the company adopts as a whole to reduce water, energy, and gas consumption. GRMHCI's adoption of the industry practices to reduce water, energy, and gas consumption in its business operation jibes with the opinion of Prigge (2016) who observed that reducing a business's impact on the environment means reducing waste and reducing waste means saving money. Cost savings through energy efficiency upgrades and renewable energy investments may be adopted by restaurants. He suggested the adoption of an Energy Management System (EMS), which allows for real-time tracking and monitoring of energy use across facilities. Reducing water use not only directly saves money on the water bill, but it also saves money on the energy used to pump the water, the energy used to heat the water and the costs associated with sending the water off to be treated. Some water efficiency opportunities in restaurants include low-flow nozzles and fixtures, water capture and reuse dishwasher systems, waterless urinals and behavior change (Prigge, 2016).

Table 3. Level of Sustainability of the GRMHCI Business Operation: Menu and Food Waste

Indicators	Weighted	Verbal	Rank
	Mean	Interpretation	
1. The company owns and uses the technical preparation	3.19	High	9.5
sheets to make the preparations.			
2. The company offers a separate menu or substitutions to meet diet restrictions, such as gluten-free preparations, vegetarian cuisine, vegan menu, or preparations to meet religious restrictions.	3.21	High	6.5



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3 6			
3. The company has documented commitments, with a	0.10		11
defined term, to reduce the use of sugar, salt, or saturated fat on the menu.	3.12	High	
4. The company includes seasonal products in its menu,	3.21	High	6.5
changing it throughout the months of the year.			
5. Suppliers of products of animal origin have certificates	225		
that prove that animals are raised without the application of antibiotics or organics.	3.36	Very High	2
6. The company only purchases products of animal origin that have an animal welfare certification seal.	3.27	Very High	4
7. The company does not use ingredients or products with			
transgenic ingredients in its composition in the production	2.93	High	14.5
of meals.			
8. The company prioritizes the full use of food, producing	,		
safe preparations that use peels, stalks, and/or	3.02	High	13
edible shavings of vegetables and fruits as ingre	dients.		
9. The company assesses its food waste during food 3.20	High 8	preparation.	
10. The company assesses its food waste during food 3.19	High 9.	distribution.	
11. The company discards food waste in the form of			
composting, anaerobic digestion, maceration,	3.10	High	12
107	with		
cooperatives that carry out these processes.		_	
12. The company trains its employees to avoid food waste	_	tages of meal pro	duction,
from 3.38 Very High 1 the receipt of food to distribution			
		toring, inventory	rotation
and/or 3.26 Very High 5 other inventory management s			
14. The company has goals for reducing/controlling food waste.	3.33 V	ery High 3	
15. The company recycles cooking oil and/or transfers the	2.93 High	14.5 cooking oil	used to
recycling companies.			
Average	3.18	High	
As shown in Table 2, the level of sustainability of CD	MUCI bucis	loss operation of	ong the

As shown in Table 3, the level of sustainability of GRMHCI business operation along the category of "menu and food waste" was 'high' with an average weighted mean of 3.18 as rated by the respondents. This means that the company, as witnessed by the respondents, adhered to standard practices of menu planning, food production, and prevention and control of food waste due to overbuying, overproduction, and spoilage. Prigge (2016) opined that reducing solid waste, and especially food waste, is a major opportunity for many restaurants to save money and enhance public perception and community relations. According to the World Resources Institute, approximately one-third of all food produced in the world intended for human consumption is lost or wasted. This inefficiency equates to a loss of \$940 billion per year and contributes to 8% of annual global greenhouse gas emissions. These financial losses are much greater for the food waste that's closer to the fork than to the farm, because all the costs of agriculture, production and distribution are embedded in that waste. According to Ritchie (201), food processing (from the farm into final products), transport, packaging and retail all require energy and resource inputs. Many assume that eating local is key to a lowcarbon diet, however, transport emissions are often a very small percentage of food's total emissions - only 6% globally. While supply chain emissions may seem high, at 18%, it is essential for reducing



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emissions by preventing food waste. Food waste emissions are large: one-quarter of emissions (3.3 billion tons of CO₂eq) from food production ends up as wastage either from supply chain losses or consumers. Durable packaging, refrigeration and food processing can all help to prevent food waste.

Table 4. Level of Sustainability of the GRMHCI Business Operation: Waste Reduction, Construction Materials, Chemicals, Employees and Social Sustainability

Indicators	Weighted	· · · · · · · · · · · · · · · · · · ·	Rank
	Mean	Interpretation	
1. The company has an operational policy that contains a	3.12	High	8.5
documented strategy on solid (non-food) waste			
management.			
2. The company separates recyclable materials, that is, 3.	17 High 6.5	selective collection	n.
3. The company limits packaging and orders products i	n 3.12 High	8.5 bulk to avoice	l waste
generation.			
4. The company does not use disposables and/or adopts		minimize the use	of these
materials as 3.00 High 10 much as possible, with documented			
5. The company adopts strategies to reduce the use of 3.1	9 High 5 pla	stic in the distribu	ition of
meals.			
6. The company returns packaging boxes for suppliers to		r provides supplie	rs with
their 2.95 High 12.5 returnable boxes for the delivery of goo		r: 1 0 : 1 c	1 11
7. The furniture (tables, chairs, and others) of the compan	y 3.33 Very F	ligh 2 is made of	durable
materials that can be repaired. 8. The company uses only ecological cleaning product	2 21 High	4.0. The compar	11000
cleaning concentrates and dilution	8. 3.21 High	4 9. The compar	iy uses
control systems and/or employee training and	2.98	High	11
monitoring for adequate dilution to minimize the use		Ingn	11
chemicals.			
10. The team has already undergone environmental 2.95	High 12.5 ti	raining (energy ef	ficiency
and water efficiency).			
11. The team has already undergone environmental 2.8	6 High 14 1	raining (fundame	ntals of
sustainability).			
12. The staff has undergone some training on healthy		eati	ng and
the health impact of what they are 3.17 High 6.5	producing		
13. The company has a strategy regarding donations of	r 3.26 Very	High 3 suppor	rt to its
community.			
14. The company has initiatives to promote healthy eating	education	for the local cor	nmunity
(schools, 3.36 Very High 1 colleges, community groups).			
15. The company purchases one or more products from a characteristic characteristic company purchases one or more products from a characteristic characteris	ritable found	ation or a social e	hterprise
that			
provides social impact. (For example, a product	2.76	High	15
made from leftover food, bread from a social enterprise bak			
Average	3.09	High	
			[

As indicated in Table 4, the level of sustainability of GRMHCI business operation along the category of 'waste reduction, construction materials, chemicals, employees and social sustainability' was 'high' with an average weighted mean of 3.09 as rated by the respondents. This means that the company was cognizant of the forms of waste and had readily available sustainability actions that can reduce an individual's, organization's or society's use of the



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earth's natural resources and personal resources. Social sustainability is about understanding the impacts of corporations on people and society. In corporations, social sustainability performance issues include human rights, fair labor practices, living conditions, health, safety, wellness, diversity, equity, work-life balance, empowerment, community engagement, philanthropy, volunteerism, and more. Though social impact, or social sustainability, issues are not easily quantifiable or measurable, they are easier to identify (ADEC, Innovations, 2021). Acar, et al., (2019) investigated sustainability concepts, linking them with social, environmental, and operational activities in the food supply chain. Building on the literature treating social sustainability as an antecedent of environmental sustainability, they presented the effects of environmental sustainability on operational performance using constructs that reflect flexibility, quality, and responsiveness. The results showed that social sustainability is associated with environmental sustainability. Moreover, environmental sustainability has a positive influence on operational performance measures: flexibility, quality, and responsiveness with effect sizes that range from medium to large. Thus, organizations in the food supply chain should consider not only the economic, but also the social and the environmental aspects of sustainability. Maheshwari et al. (2020) explored the role of employee relations and human resource management (HRM) practices on firms' commitment to sustainability in the context of micro, small and medium enterprises (MSME) in India. The findings implied that MSMEs and food processing industries are critical to the growth of Indian economy and likewise for other emerging and developing economies. They are especially critical for their contribution to overall employment and sustainability comprising the second, third and fourth supplier links in supply chains. They have a major impact on sustainability outcomes and the life quality of employees.

Table 5. Composite Table for the Level of Sustainability of the GRMHCI Business
Operation

	- P-1-W-1-1-1					
Indicators		Weighted	Verbal	Rank		
		Mean	Interpretation			
1.	Water, Energy and Gas Supply	2.99	High	3		
2.	Menu and Food Waste	3.18	High	1		
3.	Waste reduction, Construction Materials, etc.	3.09	High	2		
	Overall Weighted Mean	3.09	High			

As gleaned from Table 5, the level of sustainability pf the GRMHCI business operation was generally 'high' with an overall weighted mean of 3.09. Its sustainability along "menu and food waste" was high with a weighted mean of 3.18 (Rank 1), followed by "waste reduction . . . social sustainability" with a weighted mean of 3.09 (Rank 2), and "water, energy and gas supply" with a weighted mean of 2.00 (Rank 3). This means that GRMHCI was able to meet the needs of its clientele and sustain its operation without compromising the economy, social resources and environment (profit, people and planet). In the study of Vu, Chan and Chiu (2017), it was shown that most of the factors of business sustainability employed to measure sustainability food service operations are supported. This study showed that environmental and social sustainability are significantly recognized in the corporation. More importantly, through the data analysis, a new factor of social sustainability, namely, community contribution has been found. The study is certainly applicable to other food service operations who wish to achieve a good degree of business sustainability.



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Table 6. Profitability of the Corporation's Business Operation for the Past Three Years

ROI (%)	2017		2018		2019		Average	
	F	%	F	%	F	%	F	%
10 and below	25	60	18	43	20	48	21	50
11 – 15	9	21	13	31	12	28	11	26
16 and above	8	19	11	26	10	24	10	24
Total	42	100	42	100	42	100	42	100

As indicated in Table 6, the profitability of GRMCI based on return on investment (ROI) for SY 2017 was 10% and below as confirmed by 25 or 60 percent of the respondents; 11-15% as confirmed by 9 or 21 percent of the respondents; and 16% and above as confirmed by 8 or 19 percent of the respondents. For SY 2018, ROI was 10% or below as confirmed by 18 or 43 percent of the respondents; 11-15% as confirmed by 13 or 31 percent of the respondents; and



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16% and above as confirmed by 11 or 26 percent of the respondents. For SY 2019, 10% or below as confirmed by 20 or 48 percent of the respondents; 11-15% as confirmed by 12 or 28 percent of the respondents; and 16% and above as confirmed by 10 or 24 percent of the respondents. As a whole, 21 or 50 percent of the respondents calculated the average net profit of 10% and below for 3 years which falls within the average standard ROI for food business; 11 or 26 percent had it at 11-15% and 10 or 24 percent had it at 16% and above, way above the average standard. This means that GRMHCI has the ability to produce a return on its investment based on its resources well within the standards for caterers and way beyond the standards for full-service restaurants. According to Sacks (2016), the average pretax profit of all of the caterers over the years has been 7% to 8%. For purposes of comparison, the average pretax profit in the full-service restaurant industry is 3% to 4%. Johanns and Hofstrand (n.d) described profitability as the primary goal of all business ventures. Without profit, the business will not survive. Measurement of the former and present profitability and projection of future profitability is important. Conversely, a highly profitable business has the ability to reward its owners with a high return of investment. Moreover, Zouaghi, Sánchez-García, and Hirsch (2017) distinguished the drivers of profitability.

Table 7. Relationship between the Supply Chain Planning Practices and Level of Sustainability of GRMHCI

Subtuitionity of Gravitation							
Indicators	Pearson r	p-value	Interpretation				
Water, Energy and Gas supply	0.556	0.000**	Significant				
	Moderate correlation						
Menu and Food Waste	0.518	0.000**	Significant				
	Moderate correlation						
Waste Reduction, Construction	0.369	0.016*	Significant				
Materials, Chemicals, Employees	Low correlation						
and Social Sustainability							
**Significant @ 0.01; *Significant @ 0.05							

As reflected in Table 7, significant relationships were noted between supply chain planning practices and level of sustainability along "Water, Energy and Gas Supply" as indicated by a Person r value of 0.556 and a computed p-value of 0.000 (p<0.01); between supply chain planning practices and level of sustainability along "Menu and Food Waste" as indicated by a Person r value of 0.518 and a computed p-value of 0.000 (p<0.01); and between supply chain planning practices and level of sustainability along "Waste Reduction, Construction Materials, Chemicals, Employees and Social Sustainability" as indicated by a Person r value of 0.369 and a computed p-value of 0.016 (p<0.05). This means that the more GRMHC implements the supply chain planning practices, the higher is its level of sustainability. This finding is affirmed by the finding of Suomela (2017), which stated the direct relationship between SCM and sustainability. Based on his findings, lack of SCM practices may lead to unsustain business. Further, it also stressed that SCM should call for the need to collaborate, build long-term relationship, and power symmetry between the supplier and the buyers for a sustainable operation. Consequently, it laid down five general categories to consider in implementing SCM: (1) orientation; (2) continuity; (3) collaboration; (4) risk management; (5) proactivity.



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Further, this corroborated by Arthur (2017) who also claimed a direct relationship between SCM and business sustainability. SCM is considered as strategy in maintaining business operations as it indicates internal and logistic organization to meet the firms' vision, mission, and objective – long-term operation and prosperous profitability. Thus, to improve the business competitiveness and maintain its operation, five dimensions of SCM practices are recommended namely (1) strategic partnership, (b) strong customer relationship, (c) innovated information sharing, (d) quality information sharing, and (e) lean internal practices.

Table 8. Relationship between the Supply Chain Planning Practices and Profitability of GRMHCI

Indicators	Chi-square test	p-value	Interpretation
Supply Chain Planning Practices and Profitability of GRMHCI	4.955	0.292	Not Significant
Significance level @ 0.05	1	-1	

As presented in Table 8, there was no significant relationship between the GRMHCI's supply chain planning practices and its profitability as shown by Chi-square value of 4.944 and the computes p-value of 0.292 which higher that the 0.05 significance level. This means that GRMHCI' profitability is not dependent on its supply chain planning practices. Similar finding was observed in the study of Woldemariam (2017), which showed an indirect relationship between SCM efficiency and profitability. Profitability declined by 3.5% when capital investment for supply chains increased by 1%. Large size firms have advantage on the scale of economies which enabled them to have a more efficient SCM, production, and bargaining power which leads to an increase on net income. Indeed, the finding was contrary to the Alahmad (2021) which investigated the relationship between supply chain management practices (SCMPs) and supply chain performance (SC performance) within different industries in the Kingdom of Saudi Arabia. The research suggests that SCMPs, including supply chain planning (SC planning), level of information sharing (IS), customer relationship management (CRM), and supplier relationship management (SRM) were all positively related to SC performance. The research employed perceptual performance measures to gauge return on investment, revenue, and sales.

Table 9. Relationship between Level of Sustainability and Profitability of GRMHCI

Indicators	Chi-square test	p-value	Interpretation
Water, Energy and Gas supply	13.536	0.009	Significant
Menu and Food Waste	6.144	0.189	Not Significant
Waste Reduction, Construction Materials, Chemicals, Employees and Social Sustainability	7.000	0.030	Significant
Significant @ 0.05			



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As gleaned from Table 9, there was a significant relationship between level of sustainability along "Water, Energy and Gas Supply" and profitability as shown by Chi-square value of 13.536 and the computed p-value of 0.009 which was lower than the 0.05 significance level. Moreover, level of sustainability along "Waste Reduction, Construction Materials, Chemicals, Employees and Social Sustainability" was also significantly related to profitability as indicated by the Chi-square value of 7.000 and the computed p-value of 0.030 which was lower than the 0.05 significance level. This means that GRMHCI's profitability was dependent on the level of sustainability along the two indicators. The finding of the study is similar to that of Bodhanwala and Bodhanwala (2018), which investigated whether corporate sustainability impacts profitability performance, revealed that a significant positive relationship between sustainability and firm performance measures (return on invested capital, return on equity, return on assets and earnings per share). Motwani and Pandya (2016) studied the impact of sustainability reporting on the firm's profitability using the global reporting initiative (GRI) guidelines to identify the sustainability measures as overall sustainability reporting scores (OSR) and the scores of its four key variables viz. community (COM), employee (EMP), environment (EMP) and governance (GOV). The study concluded that overall sustainability reporting practices have a significant positive impact on firm's profitability to some extent. Laskar's (2019) study examined the relationship between corporate sustainability reporting and firm's profitability of Indian and South Korean companies. The regression results indicated that, for South Korean firms, the association is positive and significant. However, in Indian context, the impact of sustainability performance is negative.

CONCLUSION

The respondents are aware and confident that GRMHCI has been undertaking activities to promote effective management of their supply chain which involves the process of coordinating assets to optimize the delivery of goods, services and information from supplier to customer, balancing supply and demand, adopts and implements practices that reduce water, energy, and gas consumption, adheres to standard practices of menu planning, food production, and prevention and control of food waste due overbuying, overproduction, and spoilage, and is cognizant of the forms of waste and has readily available sustainability actions to perform. Additionally, the organization's or society's use of the earth's natural resources and personal resources, GRMHCI has the ability to produce a return on its investment based on its resources well within the standards for caterers and way beyond the standards for full-service restaurants, The more GRMHCI implements the supply chain planning practices, the higher is its level of sustainability, GRMHCI' profitability is not dependent on its supply chain planning practices, and its profitability is dependent on level of sustainability along "Water, Energy and Gas Supply" and "Waste Reduction, Construction Materials, Chemicals, Employees and Social Sustainability", however, it is not dependent on the level of sustainability along "Menu and Food Waste'.

RECOMMENDATIONS

Based on the findings and conclusions, the following recommendations are offered: GRMHCI should utilize planning and statistical forecasting (Ex. historical data) to ensure that it balances excess at individual branches which occurs when the projected demand is greater than the safety



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stock at a certain point in time, and in order to further enhance the sustainability of its business operation. GRMHCI should periodically evaluate its operation using the Sustainability Assessment of Foodservice Checklist to check whether refrigerator and freezer doors have audible alarms for open doors or automatic locks; to look into the process of recycling cooking oil and/or transferring the cooking oil used to recycling companies; and to ensure the regularity of purchasing one or more products from a charitable foundation or a social enterprise that provides social impact.

Likewise, synergistically consolidate the operation of GRMHCI and its six branches through the operation of a Commissary to further maximize profit, in the supply chain planning practices of GRMHCI, it should not lose track of the dimensions of sustainability, i.e., the economical, ecological, and social circumstances in which food is produced and offered. Thus, key personnel of the company should attend training on re-conceptualizing supply chain and for purposes of knowledge-sharing. GRMHCI could conduct a review of its supply chain planning practices (i.e., inventory management, supplier cash control, operating expenses control, customer cash control, etc.) to further improve profitability, and it should further enhance its high level of sustainability along the area of 'menu and food waste' by minimizing food waste through creative menu solutions to further improve profitability.

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