

businesses. It was discovered that using an online payment option does indeed have a bigger influence on generating business and makes the transaction more convenient for customer. After doing the analysis, we came to the conclusion that the length of time spent using a product and the number of years spent in business both play an important part in the decision-making process, which is why businesses should switch to using digital payment methods. There is a strong connection between the intentions behind a behaviour and the conditions that make that behaviour possible. As a result, the key reasons for adopting digital payment in retail outlets are convenience and the need of customers; however, shopkeepers in Thane, Maharashtra express very little concern over the fear of being scammed and the security of transactions conducted on digital platforms. It appears that it will take a sufficient amount of time to become a cashless economy altogether. It calls for the full cooperation of the populace as well as increased awareness and education on the part of both retailers and average people. If we want to see a rise in the number of digital transactions, we need to first address the widespread problem of low levels of education and computer proficiency. The efforts being made by both the government and private sector companies with their own online payment apps (like Paytm and PhonePe, for example) are producing positive results. In order to have a completely cashless economy and to offer long-term, sustainable economic growth for the nation in the not-too-distant future, the government will need to take responsibility for addressing and resolving these difficulties.

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Implementation of strategic cost management in manufacturing companies: overcoming costs stickiness and increasing corporate sustainability

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Abstract

In today's competitive world, three factors: price, quality and time have critical roles in the success of the companies to achieve success in the competition. For this purpose, the companies have to also adapt themselves to changes in technology and environment. Strategic cost management is the best way to improve the sustainable management models in the manufacturing companies. Strategic cost management has solved many of the problems and shortcomings of traditional accounting system and by accurate determination of costs, their proper allocation to products and elimination of waste, tries to create value for shareholders by using continuous improvement. The objective of this paper was to develop a management model called strategic cost management that reduced costs stickiness and increased corporate sustainability. Using strategic cost management approach can create competitive advantage for the companies, because it provides accurate cost price

information so that the users can easily understand the information. The aim of the paper by introducing strategic cost management was to contribute toward accurate pricing, which could result in the increased profitability and competitiveness of the manufacturing companies in a highly competitive global market and at a market based price. Also, due to the growing competition among companies in providing high quality products with reasonable prices, a precise system of measurement of the cost of the product is necessary.

Introduction

In recent years, economic analysis in the planning process and in the monitoring process of the production process shows that three factors: price, quality and time have critical roles in the success of the companies to achieve success in the competition. The world faces the problem of integration between sustained business functions. The sustainability data are not sufficiently integrated. To solve this problem, organizations need information systems to facilitate their sustainability initiatives [1, 2]. Also, businesses and academics worldwide agree regarding the benefits of sustainable development (SD). Improving reputation and branding and increasing revenues by reducing costs are the primary strategic objectives of any entity [3, 4]. In this paper, we introduce the strategic cost management approach that helps manufacturing companies for overcoming the costs stickiness and monitoring the life cycle of products and it introduces integrated sustainable development system for manufacturing companies. Strategic cost management is a process connecting financial management, cost management and strategic management. It involves cost optimization and financial resources preparation which are needed to achieve desired strategic market position in cost effective manner. The importance of managing costs and aligning them with the business strategy of an entity is critical

especially in the midst of challenging economic times faced by businesses today. Traditionally companies have been under pressure to cut cost in the short-term without really thinking about sustainable change, impact on the people and integration with the overall business strategy. In the current business environment of increased global competition, new markets, increasing regulation and changing demographics, successful companies are changing their approach to cost structuring and control.

Over the last decade, research in management accounting has challenged the fundamental assumption that cost behavior is symmetric for activity increases and decreases. Cost behavior is an important issue in cost accounting and management accounting, as it widely affects decision-making processes. Moreover, several techniques generally used by managerial accountants and financial analysts depend mainly on cost behavior, such as conventional ABC, cost estimation and cost-volume-profit analysis. Quality management (QM) has been widely viewed as a management paradigm that enables firms to gain a competitive edge. Therefore, overcoming cost stickiness is a critical issue for managers of manufacturing companies. Also, understanding cost behavior is an essential element of cost and management accounting.

Cost stickiness, also referred to as asymmetric cost behavior, is a well-documented result of managerial discretion underlying the development of corporate cost compared to changes in firm activity. Managers' decisions to maintain the resource allocations due to product market competition can be costly, especially during periods of sales decreases. Under the traditional model of cost behavior, costs are assumed to be either fixed or move proportionately and symmetrically with sales changes. The traditional model of cost behavior distinguishes between fixed and variable costs and posits a proportional relation between

variable costs and underlying activity levels. Understanding sticky cost behavior is important and has direct benefits for the economy as it provides useful information to managers making decisions on cost control and to external stakeholders (e.g., financial analysts) assessing firm performance. As the global economy integrates and competes, strengthening cost management and operational efficiency becomes increasingly important to firms' survival and development.

Cost management is an important part of business management in the manufacturing industry. The degree of cost management implementation is a comprehensive index to measure the level of enterprise management. In particular, firms with limited access to capital have higher costs of securing external financing during the capacity expansion periods, which increases the upward adjustment costs. When activity decreases, firms with limited access to capital may suffer more decrease in the present value of revenue generated by a marginal capacity, as these firms have higher opportunity cost of capital and thus higher discount rates compared to firms with better access to capital. Therefore, we hypothesize that limited access to capital not only reduces contemporary capacity expansions associated with sales increases, but also weakens the degree of cost stickiness when sales decrease.

On the other hand, cost management is an important part of business management in the manufacturing industry. The degree of cost management implementation is a comprehensive index to measure the level of enterprise management. From investors' perspective, investors depend on the published financial statements prepared by the management that are based on available information regarding the determinants of cost behavior. From financial analysts' perspective, predicting cost behavior is an essential part of earnings prediction.

In many production firms, it is common practice to financially reward managers for firm performance improvement. For decades, firms have devoted to improving the speed and efficiency of material and information flows in the supply chain, acknowledging the importance of time-based competitive advantage in the dynamic business environment. As one of the key factors in decision-making process, the evolution of product price passes critical information. Managing costs by utilizing resources effectively is regarded as fundamental to success in today's competitive environment. Cost behavior as "sticky" if costs increase more for activity increases than they decrease for an equivalent activity decrease. Sticky behavior is the result of decisions made by managers when activity decreases. When activity drops, the manager must decide whether to (a) maintain committed resources and bear the cost of unutilized capacity at least in the short-term or (b) immediately reduce committed resources and incur potentially large retrenching costs in the current period and, if activity increases in the future, incur further costs to replace resources. Traditional accounting cost models assume that fixed costs are independent of the level of activity and variable costs change proportionately with changes in the level of activity. In the common traditional model of the behavior of costs, which is generally accepted in accounting literature, costs are usually divided into two categories of fixed and variable ones in terms of changes in activity level: fixed occupants are variable. Most management accounting texts assume that unit variable costs are linear and proportional to changes in activity and that fixed costs are fixed. The proportionality and symmetry between costs and activity implies that a 1% increase in activity results in a 1% increase in costs, and a 1% decrease in activity results in a 1% decrease in costs. Stickiness might also be conditioned by existing capacity.

Notions of cost behavior are a key element in management accounting. There are two main views about the existence of expense stickiness: rational decision-making and motivational. The rational decision-making view treats expense stickiness as a consequence of management rationally choosing between alternatives after comprehensively weighting costs and benefits. The second view is motivation-based and relates expense stickiness to managerial incentives, suggesting that managers are not expected to behave as if they were in an ideal world. Among their dysfunctional behavior, perks and earnings management reflecting different contracting stimulations are often observed.

Planning and control are the important tasks of management. Cost related information that managers need them to perform these tasks may be received from classified information reflected in the financial statements. The required information in this regard cannot be easily extracted from the financial statements. A business entity's expenses can show different behaviors suitable to the level of activity. In the traditional cost model it is often assumed that administration, general and selling costs vary according to activity level. However, recent experimental studies have revealed evidence that shows that administration, general and selling costs behave asymmetrically. An asymmetric behavior is a behavior in which cost increases more rapidly. In other words, the reduction in costs at the time of declining sales is lower than when the cost increases at the time of the same level of sales. This cost behavior is called cost stickiness. Expanding research shows that economic factors such as increase in assets and uncertainty about the future can have an impact on the asymmetric behavior of cost.

objectives of Study The objectives of studying strategic analysis of cost drivers are critical for companies to improve their

competitive position in the market by identifying and managing cost factors that impact both structural and administrative costs. By understanding these drivers, companies can make informed operational and strategic decisions to optimize performance and reduce unnecessary expenditures. Below is a breakdown of how strategic analysis of cost drivers can help in improving the competitive situation and facilitate decision-making:

1. Structural Cost Drivers

These drivers have a long-term strategic impact on a company and influence its overall business structure and cost structure. They include:

➤ **Scale:**

Companies can determine how extending or consolidating operations affects costs and profitability. For instance, a retail company may decide to open new stores as part of its growth strategy to achieve economies of scale, which can improve cost efficiency and enhance competitive success.

➤ **Technology:**

Adoption of new technologies plays a significant role in reducing costs. For example, using automated manufacturing systems or employing computer technology to track product usage (such as in large retail chains) can help reduce production and inventory costs by enabling quick replenishment of stock.

➤ **Complexity of Products:**

Companies producing a variety of products face higher costs related to planning, managing production, and distribution. To address this, they might adopt activity-based costing (ABC) to analyze which products are more or less profitable. Managing product complexity effectively helps streamline operations and reduce unnecessary costs.

2. Administrative Cost Drivers

Administrative cost drivers are short-term factors that can be influenced by operational decisions and affect day-to-day

business activities. These factors can lead to immediate reductions in costs:

➤ **Work Commitment:**

A strong commitment between employees and management can help drive efficiencies and reduce operational costs. When employees are motivated and aligned with the company's goals, productivity tends to increase, and waste decreases.

➤ **Design of Production Process:**

The way the production process is designed, including the arrangement of equipment and the sequencing of tasks, can greatly influence the speed and efficiency of manufacturing. Innovations in production technology and process design can help streamline operations, reduce downtime, and cut costs.

➤ **Supplier Relationships:**

Strong relationships with suppliers of raw materials can lead to cost reductions. Through negotiation of better terms regarding quality, delivery times, and prices, companies can minimize their raw material costs. By ensuring timely deliveries and maintaining quality standards, companies can avoid expensive disruptions or delays in production.

3. Operational and Strategic Decision-Making

Analyzing cost drivers helps companies make better operational and strategic decisions by:

➤ To Understanding both structural and administrative cost drivers, companies can pinpoint areas where costs can be minimized

➤ To Managing administrative cost drivers such as work commitment, production process design, and supplier relationships.

➤ To study Strategic decisions related to structural cost drivers, such as scale and technology adoption, enable companies to achieve a long-term competitive advantage by ensuring they are cost-competitive over time.

Costs stickiness

Cost behavior is defined as cost reaction

in response to changes in activity level. Managers who understand how costs behave, have better circumstances for predicting spending trends in various operational positions. This position allows them to plan their activities and thus plan their operating revenues better. The traditional view related to costs indicates that changes in costs have a proper relationship with increased and decreased activity level. However, recent researches about costs behaviors indicate costs stickiness. Thus the degree of increase in costs level as a result of increase in activity level is higher than the degree of reduction in costs level as a result of decrease in activity level.

According to the idea of Anderson et al. [31], there are many reasons for costs stickiness. Some of these reasons include natural reluctance to lay off employees when downsizing, firm costs and the need for time to approve a reduction in the volume of activity and management decisions for maintaining used resources which could be the result of individual consideration and leads to imposing cost to the firm. By determining the stickiness of cost, the company owners can analyze whether managers incur costs to the firm or not [32].

Managers of manufacturing companies must consider the relationship of costs with income and the effect of income changes on the costs rate when planning and budgeting the company activities for predicting the future costs and thus offer a more comprehensive budget [33]. The ultimate goal of any business unit is maximizing profits and consequently, an increase in equity. Management of each profit-oriented enterprise tries to gain maximum benefit and efficiency from using the fewest resources and one of the simplest ways to reduce consumption of resources is cost control. But this requires complete knowledge of how costs behave and the factors influencing the behavior of the cost. One of the items that should be considered in the analysis of cost behavior is

the phenomenon of cost stickiness. The public and dominant view is that with declining sales, costs should also be changed accordingly. But in fact, it does not happen .

Today, increasing competition in domestic and international markets has forced managers to better understand their cost structure and become aware of cost orientations. The meaning of cost orientation is a model according to which costs react to changes in activity level. Therefore, it is suggested that managers calculate their cost stickiness and consider all aspects of this important issue in their decisions. Orientation or the concept of cost stickiness gives a great help to investors and shareholders. Because in companies with strong stickiness, by reduced selling, costs will change more than the time when selling increases and this will be considered as a weakness of management by the investors and shareholders; while one of the main reasons of cost stickiness is bearing the current costs to avoid more losses in the future and or more profit in the future and it depends on management decisions .

Review of literature

Sustainable development refers to an economic, environmental and social development that meets the needs of the present and does not prevent future generations from fulfilling their needs. In manufacturing companies, collaboration between supply chain members is important for the sustainability and competitive advantage of a supply chain. The collaborative activities in a supply chain include various joint activities for cost reduction, research and development (R&D), product development, manufacturing, marketing, distribution, and service. The commitment of companies to corporate sustainability has been frequently discussed in theory and practice. Such a commitment to corporate sustainability demands a strategic approach to ensure that corporate sustainability is an integrated part of

the business strategy and processes. Also, the effective adoption of continuously developing new technologies is a critical determinant of organizational competitiveness [37–41].

For the first time [5] tested the hypothesis that costs are sticky and approved the presence of stickiness in the costs behavior. They established a model with administration, general and sales costs as a function of sales, and found that costs increase by an average of 55% in response to a 1% increase in net income, but decrease only by 35% against 1% reduced income. In other words, a 1% increase in net sales, costs increase by 55% but by 1% decrease in net sales, costs decrease only by 35%. Due to the lack of public information about costs related drivers, they used data of administration, general and sales costs and net income of sales for the analysis of cost stickiness, and stated that they can analyze the behavior of administration, general and sales costs based on sales net income because sales volume stimulates many parts of this cost. Subramaniam and Weidenmier Watson [25] tested the presence of behavior of stickiness in the cost price of goods sold, and the results showed a positive relationship. They also tested the effect of different economic conditions, such as rates of GDP and the different characteristics of companies, such as total assets and number of employees of companies on costs stickiness. Their results showed that in periods of economic growth, the severity of stickiness is more and in the periods that income decrease happened in its previous periods, severity of stickiness decreases. Also, by increasing the ratio of total assets to sales and an increase in the number of personnel of companies, severity of cost stickiness increases. Stickiness of sales and distribution and general and administration costs has been studied in another study by Anderson et al. [31]. The main hypothesis of this study is public sale and administration costs. After collecting data related to cost of general

sales and administration and sales revenue costs of 7629 American companies in a 20-year period (1979–1998), the relationship between costs and sales was examined by multi-varibale regression relationship. The results of this study did not confirm the main hypothesis of the research and announce the general sale and administration costs of companies in the statistical population of the research, sticky.

The results obtained by Weiss [18] from a sample of 2520 out of 44,931 industrial companies from 1986 to 2005 show the issue that the sticky behavior of costs increased the accuracy of analysts in predicting revenue in total, considering the fact that prediction horizon and especial effects of industry have put this analysis under control. With regard to the classification of costs into sticky and non-sticky costs, the results of Weiss's research [18] show that the accuracy of analysts in forecasting revenues for firms with sticky cost behavior is on average 25 percent less than that of people who analyze for companies with non-sticky cost behavior. Obviously, the behavior of cost has a considerable influence on the accuracy of analysts' prediction.

In Kordestani and Mortazavi, research [30], the power of profit prediction was compared with other models by the model based on variability and stickiness of cost. The study showed that the accuracy of prediction of the model based on the variability of costs and stickiness of cost is significantly higher than the other models. In several domestic researches, stickiness of various costs has been studied. According to the results of Ghaemi and Nematollahi's research, the cost price of the sold goods and selling and distribution and general and administration costs are sticky. Another study from the same researcher showed that overhead costs are sticky, but the costs of raw materials, direct wages and financial costs are not sticky.

In other study, Khani and Shafiei [42]

examined cost stickiness and its relationship with sales and the results of their research indicate an undeniable relationship between the amount of sales and company earnings with the level of company's costs. Although their findings indicate that costs do not increase in proportion to profit increase, but there is a significant relationship between them.

In other study, Banker et al. [43] examined the relationship between uncertainty and sticky behavior of cost. By examining administration, general and sales costs, number of employees and their working hours, they evaluated cost stickiness. The results indicate the presence of cost stickiness in the sample under investigation. Sepasi et al. [44] examined the characteristics of management behavior toward costs stickiness. Their studied a sample consisting 14,568 year-company and examined administration, general and sales costs for the years 1992–2011. The results showed behavioral changes in managers about cost stickiness so that the occurrence of cost stickiness phenomenon increases the confidence of managers.

Management of strategy and strategic cost management

Effective strategic management plays an important role in the success of the company or organization. Increase in competition in the international arena, new technologies and changes in business processes, caused management to become more dynamic and important than before. Managers should always have a competitive attitude and for this purpose the company's competitive strategy is essential. Strategic attitude leads the manager to anticipate changes and products and their production process will be designed based on anticipated changes in demand and customer's needs. In this situation, flexibility is important. In developed countries, most organizations use data of cost management. But the extent of their reliance on this information depends on the

nature of the competitive strategy of the company. Many companies compete on the basis of the provision of goods and services at the lowest cost price. Some companies compete on the basis of being a leader in production and offering superior and differentiated products. The role of cost management is supporting corporate strategy by providing the information through which one can be successful in product development and their marketing. For achieving corporate sustainability, we suggest using the instruments of strategic cost management in manufacturing companies. Today, managers use strategic cost management tools to accomplish strategies and achieve main success producer factors.

Instruments of strategic cost management are as below:

The most common system that is used in many companies is an activity-based costing system. Activity-based costing system which specifies the resources consumed by each activity during the relevant period; and thus the cost of each activity is precisely calculated. Then the aggregated costs of any activity are assigned to the considered product or customer, depending on the product consumption or the customer use of that activity. The other instrument is bench-marking. Bench-marking is a process where the companies try to choose the best practice of the right activity in comparison with the leading companies, then given the success-builder factors, the company processes are improved to the level of performance of its competitors or even reach to a better level. For identification of internal and external failure factors in the companies, we suggest using total quality management techniques. Total quality management is a new concept that emphasizes on precise measurement of the costs and identification of internal and external failure factors, through which a way to lower production (lean production) by continuous improvement in

company processes is created.

For finding the precise systems of measurement of the cost, in-time production system and kaizen costing are useful tools for manufacturing companies. In-time production system is a system based on the volume of demand. In this system, a piece of product will be purchased or produced only when a sign of its consumer is received. This prevents the accumulation of inventory in workstations. Among the main objectives of this system we can mention improvement of quality and increase in productivity with an emphasis on the kaizen concept. Kaizen costing is a managerial technique through which managers and employees of the company become committed to perform continuous improvement programs in the quality and other key factors of success. In the path of continuous improvement, the processes are re-engineered and non-value activities in the manufacturing process are removed or left behind .

The other instruments are target costing and value engineering. In the target costing method, the costs are determined according to the product price. It means that first the companies determine the product selling prices, by analyses of the market and then according to their expected profit, determine the cost price of the product. In other words, a goal-oriented costing system is profit planning and a cost management system. In that base it was the price, and the essential emphasis is on customers. Goal-oriented costing system focuses on the design stage and requires the participation of all specialized units. Value engineering is suggested with the aim of examining all activities of a project, from the formation of the first thought to the design and implementation and then setting up and utilization, is known as one of the most efficient and the most important economic methods in the field of engineering activities . The purpose of value engineering is eliminating or modifying

any factor that leads to the imposition of unnecessary costs, without hurting the core and essential functions of the system. Value engineering is the continuous improvement of design and implementation and it is not merely a program to reduce costs, but is a way to maximize the value of designs .

Implementation stages of strategic cost management

Implementation stages of strategic cost management include value chain analysis, strategic situation analysis and analysis of structural and administrative costs drivers.

Analysis of the value chain

Value chain analysis is an instrument for strategic analysis that helps companies to better understand the competitive advantage. Value chain analysis focuses on the whole value chain of the product from design to production and after-sales service. The basic concept of analysis is that by a thorough examination of each of the activities in the value chain, one can reveal the activities that the companies have the highest or lowest success in from a competition perspective, and plan accordingly.

Analysis of strategic situation

At this stage, the company determines its potential and current competitive advantage by examining valued activities and cost drivers which have been specified in the previous stage. Companies which have competitive strategy of cost leadership are strongly trying to reduce their costs to the level of cost leadership. Cost leadership focuses on cost reduction only as far as it makes sure that it is the leader in price and the holder of the lowest cost in the market. Reduction of costs is usually done by increasing productivity in the production process, distribution or general and administrative expenses. In this management strategy, maintaining stability is a priority and the company is not looking for innovation and risk-taking, but is looking for offering products and services at competitive prices. In contrast,

competitive strategy of differentiation, allows the companies to raise the price of products higher than that of their competitors and without significant reduction in costs, have high profitability. These companies, by creating differentiation between the products and creating new features, make customers willing to pay a reasonable price as a result of this differentiation. Using the product differentiation strategy, one can reduce the intensity of competition and no threat of product substitution happens for the manufacturer, because all customers become loyal to the brand of the product.

Analysis of drivers of structural and executory cost

Strategic Analysis of cost drivers helps companies in improvement of their competitive situation. Drivers of structural and executory cost are used to facilitate operational and strategic decision-making.

➤ Driver of structural cost, has strategic nature because it includes programs and decisions which have long-term effects. In this regard, the following items are necessary to be noted:

➤ Scale: For example, a retail company shall determine the number of new stores it opens during the year in order to achieve the strategic goals and competitive success.

➤ Technology: New technologies can significantly reduce the company costs. For example, some manufacturing companies in developed countries use computer technology to show number of products that their customers use (especially large retailers), so that whenever the customers run out of the inventory in the warehouse, they send for them quickly.

➤ Complexity of products: companies that produce a high variety of products, have high cost of planning and management of production and also high distribution costs and after-sales service. Such companies usually use activity-

based costing to determine the degree of profitability of their products.

➤ Administrative cost drivers, are the factors that companies can manage them in the short term through operational decisions to reduce costs. These factors include:

➤ Work commitment: work commitment causes reduction in costs. The companies in which there is a strong correlation between the employees, can significantly reduce their operating costs.

➤ Design of Production process: the sequence arrangement of equipment and the frequency of processes lead to accelerating the production process in the company. Production technology innovations can significantly reduce costs.

➤ Relationships with suppliers of raw materials of the company: the companies can reduce their costs significantly through agreements with suppliers of raw materials on quality, delivery time and other characteristics of their required raw materials.

Conclusions

Today, sustainability emphasizes various aspects of the organization in economic, social and environmental terms, so the importance of this issue is very important for current and future generations. Most companies have come to the conclusion that in order to improve the efficiency and effectiveness of production sustainability, they need to monitor, measure and control the characteristics of sustainable production. Therefore, measuring the sustainability of production has become an important issue in production and operations. The purpose of this paper is to design a model for achieving a sustainable development index in order to integrate the economic, social and environmental performance data of manufacturing industries. By understanding the limitations and shortages of resources, the approach of the manufacturing companies includes the acquisition of new production

mechanisms and technologies. To achieve newer and more innovative technologies tailored to their production processes in order to reduce production costs and increase their market share, these companies have conducted costly research. One way to deal with a shortage of resource for companies is reduce their costs. Companies regardless of sizes and operational scales must take economic opportunities into account in the long run, limiting opportunities, and incorporating innovative solutions, sustainable development, and positive social and environmental impact into their business activities.

Small-business owners face an ongoing challenge in trying to balance the need to serve customers and meet long-term business objectives while at the same time controlling the cost of doing business. A strategic cost management strategy in which cost decisions are made according to the value they add to both the business and the customer is often the most effective strategy a small business can adopt. Good financial decisions come from an effective cost management strategy designed to maximize value and minimize both initial and ongoing costs. Although a great many of a business's cost-based decisions involve purchasing, pricing and inventory management, it's also important for every small-business owner to consider costs involved inside the business.

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