KAIZEN COSTING: A CATALYST FOR CHANGE AND CONTINUOUS COST IMPROVEMENT

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Abstract ____

The paper presents the application of kaizen costing as a tool of positive changes and continuous cost improvement. There is confusion between concepts 'Kaizen' and 'Kaizen Costing' in previous studies. The paper discusses that kaizen costing is the part of new business concept 'Kaizen' and this method is based on the philosophy of 'Kaizen' a new way of thinking. The paper also describes the main differences between kaizen costing and other similar term 'Innovation'. The paper discusses that kaizen costing is used as a modern costing method for continuous cost improvement and this method is different from old cost control techniques standard costing.

Introduction

The term kaizen is originated by the Japanese companies for continuous improvement. According to Barnes (1996) the Japanese word kaizen is a composition of the words kai and zen where kai, means "change" and zen, means "good or better" and can be translated as improvement. The popular meaning of kaizen is continual incremental improvement in all aspects of a company. Kaizen is a Japanese word meaning gradual, orderly, continual improvement or change for better. The kaizen concept involves everyone in an organization working together to make incremental improvements without large capital investment. Imai (1986) defined kaizen as continuing improvement in personal life, home life, social life, work like and when it is applied to the workplace then kaizen means continuing improvement involving everyone from top managers to workers. In business culture and management process the term kaizen refers for continual and gradual improvement. The kaizen approach is not only about doing things better, but getting specific outcomes. According to Wellington (1995), kaizen originated as a new business concept in Japan. Kaizen approach was initiated in Japan to survive in a special business environment. Wellington (1995) revealed that kaizen as wholesome not acceptable in Western thinking and behaviour, nor good in the best concern of employees. The Japanese companies are now introducing group-oriented environments. Japanese embarked this to response the 1991 recession. Kaizen is not a new concept because companies and people are applying it from last decades without knowing it. In the sense of management it is improvement and kaizen offers far more chances of improvement. According to previous studies kaizen costing is derived from kaizen concept and it is the part of kaizen philosophy. The kaizen costing method is also based on the principles and philosophy of kaizen. Now after successful use of kaizen costing in Japanese firms, it is also accepted and used as a very useful method of cost reduction by manufacturing firms in other countries and also it is being accepted on worldwide level for better management and performance.

Kaizen Costing

Kaizen costing was originated as cost management practice in Japanese companies after World War II. Kaizen costing is known "Genkakaizen" in Japanese companies. Kaizen costing method is used in manufacturing stage of the existing products as cost reduction process. Kaizen costing focuses on continuous improvement in all processes, customers' satisfaction and on involvement of all employees of company. Kaizen costing is derived by Japanese automobile companies. In 1960 Toyota established the cost management technique namely kaizen costing (Toyota Motor Corporation, 1987). Yasuhiro & John (1993) commented that kaizen costing works on the establishment of a cost reduction target amount through continuous improvement or kaizen activities in operations. Guilding et al. (2000) stated that kaizen costing is a strategic management accounting practice which is forwardlooking and closely aligned to a quest for competitive advantage. According to Yasuhiro & John (1993) kaizen costing activities maintain the current level of the existing production costs and further reduce costs to an expected level based on the plans of firm.

The strong point of kaizen costing comes from its close connection with the profit planning process of the company; hence company can examine its progress toward the long-term goals. Kaizen costing activities involve continual small incremental product cost improvements in the manufacturing phase of the product in contrast improvements in the

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design and development phase. Kennedy & Widener (2008) described the term kaizen costing as continuous improvement and time improvement by eliminating waste and reduction of costs. Kaizen costing is concerned with reducing the costs of existing products and processes (Hansen & Mowen, 2003). Kaizen costing is a method that ensures a product should meet customer requirements for quality, functionality and price to maintain product competitiveness (Ellram, 2000). Kaizen costing focuses on continuous costs reductions, which is realized for existing products in a company (Cooper, 1995). The kaizen costing method of cost management involves the product design and development team after establishing and implementing the product and process design in manufacturing phase, it also focuses on the operational character of the process and production in efficient manner. This method requires the focus and attention on cost reduction. Kaizen costing does not focus mainly the product but it focuses on the production process and for this important factor is communication capacity. According to Kaplan & Cooper (1998) kaizen costing is an approach to develop a costing system to carry continuous improvement activities in a company. Its purpose is to motivate operators to drive costs down, rather than to record historic costs and variances. Standard costing system focuses on meeting cost standards and avoiding adverse variances while kaizen costing focuses continuous cost reductions (Shank & Fisher, 1999; Tanaka, 1993). Kaizen costing is about beating the current cost levels, not matching standards and explaining variances (Bicheno, 2000). Kaizen costing is less worried about accuracy and more worried about putting information in the hands of the people doing the work for decision making. Thus, kaizen costing is a method of cost reduction during the manufacturing phase of product and it focuses continuous improvement of the production process to do better and reduce wastage part of cost of production. Kaizen costing involves maintaining the levels of present costs to produce products and perform regular work to reduce costs to reach the desired level. Kaizen costing is one of the productivity improvement methods (Vincent, 2004). Kaizen costing technique is a method to improve productivity and cost savings by continuous improvement in the manufacturing process.

Monden (1995) stated that kaizen costing as the maintenance of present cost levels for products presently being manufactured through systematic efforts to achieve the desired cost level. Kaizen costing is the inclusive and continuous approach to reduce costs after the production stage of a product. In kaizen costing both the product and the production process are considered. Drury (2008) argued that the focus of kaizen casting is on the production

processes and cost reductions are resulting mainly through the improved efficiency of the production process.

Monden & Hamada (1991) defined kaizen costing as "The system to support the cost reduction process in the manufacturing phase of the existing model of product and is also relevant to other downstream (non-manufacturing) costs"

Kaizen costing can be defined as small improvement in cost of existing products which is slowly performed with succeeding performances and it is maintained by those persons who are participating in activities. Basically in kaizen costing a cost reduction target is set which is then applied with the actual costs of the previous year. In kaizen costing method cost reduction are planned with continuing kaizen activities throughout the life cycle of product. Participation of all members of the organization in kaizen targets can motivate employees toward attaining the cost reduction targets. Kaizen costing forces changes in the ways or production processes and it creates a link between cost reduction activities and manufacturing processes to improve value of product and earnings of firm. Kaizen costing maintains the current production level and further tries to reduce the cost at expected level. Thus, kaizen costing includes two main aspects, (1) maintenance of current production conditions then (2) improvement in current production conditions.

Kaizen and Kaizen Costing Connection

Kaizen means improvement in small steps was developed for quality improvement. On the basis of kaizen concept, Yashuhiro Monden, from Japan, developed the kaizen costing concept which is translated as enhancement estimation. Literature stated that kaizen philosophy ensures continues improvement by sustaining the process of cost reduction in manufacturing phase. Kaizen basically assume that every worker of company knows how the task is undertaken and whether there is any better way of doing it. It is not so much a costing routine as the outcome of developing an organizational culture of collaborative learning at all levels of the company. Kaizen is based on thought and action through work-teams to search for improvement. Kaizen system has precise cost improvement activities for each department. Kaizen costing comprises cost reduction activities requiring changes in the manner a company manufactures existing products. Kaizen is the process of seeking continuous improvement.

Kaizen involves small improvements as result of constant efforts of all level employees and it works on PDCA (Plan, Do, Check, Act) concept. Literature states that when any Japanese company follows the Plan, Do, Check and Act thinking, then firstly under this philosophy they find a problem raised in the company like producing non standard product, then after identification of problem management makes a plan for this, finally taking a solution to beat the problem and changing the work procedures to remove the problem. The managers apply the kaizen tool PDCA (Plan, Do, Check, Act) cycle for kaizen costing implementation. Kaizen costing removes non-value added cost. Hassen & Mowen (2003) described two recurring major sub-cycles in cost reduction process (1) continuous improvement cycle and (2) maintenance cycle. According to Hassen & Mowen (2003) continuous improvement cycle is defined by a plan-do-check-act sequence (PDCA). Improvement refers to activities directed towards maintaining operating standard situation in good condition and upholding such standards through training and discipline (Jagdeep & Harwinder, 2009). According to Hassen & Mowen (2003) the maintenance cycle follows a traditional standard-do-check-act sequence (SDCA). Jagdeep & Harwinder (2009) defined that maintenance refers to activities directed towards to inspiring current standards. The important aspect of kaizen is improved the business and product elements such as quality, cost, delivery etc. Quality improvement in terms of product features, cost improvement in terms of production cost and delivery improvement in terms of on time distribution of product. The improvement of cost part is done by controlling and reducing cost inadequacy. For this kaizen costing technique can be used to reduce the production cost and improve the product quality. Thus, kaizen term is used for whole organization for continuous improvement and kaizen costing is the part of kaizen term which is used for continuous cost reduction for existing products and it is based on the ideology of kaizen. In some previous studies kaizen term is also used for kaizen costing.

Computation of Kaizen Cost Targets

Japanese companies computed the kaizen profit or profit improvement on the basis of difference between target profits determined by top managers and estimated profit determined by the lower level managers. Japanese automobile companies considered that cost reduction in variable and fixed cost is necessary for cost savings. They think that kaizen cost reduction can be achieved through the variable cost reduction in mainly manufacturing department and in non manufacturing departments but kaizen cost amount for fixed costs can

also be decided. The kaizen costing takes last year's actual cost as base for cost reduction, and then a kaizen costing goal is established for the specific cost reduction rate during the current year. The actual cost which has taken as base now compared with the preset kaizen costing cost reduction goal. At the end of the current year the actual cost of this current year will become the cost base for the next year, and in next year new lower kaizen cost reduction rates are set and cost reduction efforts are continued in the organization. The kaizen cost reduction goals are met through the removal of non value added activities costs, elimination of wastes and improvement in time management. The improvement suggestions given by employees are also taken sincerely by management, who implement these suggestions or ideas. Kaizen costing provides continually more competent and cost-effective production process (Hilton et al., 2006).

The ratio of cost reduction target is determined in considering kaizen profit and generally it is ten percent. After three months of the start of production of new product after the use of target costing process the next cost is reduced through the kaizen costing method. After this the kaizen cost targets for each plant is decomposed among different divisions and smaller units of the plants and these kaizen cost targets are achieved through daily kaizen activities. The kaizen cost targets are decided in the kaizen cost committee and managers determine policies (mainly non monetary measures) to achieve the kaizen cost targets. In kaizen costing process through the assignment of kaizen cost targets to different departments company can maintain the accounting control and the quality aspect can be achieved through the shop floor members' activities. The shop floor members are involved in daily kaizen activities through suggestion schemes and quality circles. Therefore, kaizen costing helps in both shop floor control and accounting control. According to previous studies like Tanaka (1990), Monden (1989) the amount of kaizen cost is decided in kaizen costing process and it is determined as under:

(1). Per product actual cost in the previous year = <u>Total actual cost of last year</u> Actual production in last year

(2). Estimated amount of total current year actual cost = Per product actual cost in the previous year (1) × Estimated production for the current year

(3). Kaizen cost target for the current year = Estimated amount of total current year actual cost (2) \times Ratio of cost reduction target

(4). Assignment cost to each plant = <u>Cost directly controlled in single plant</u> Cost directly controlled in all plants

(5). Kaizen cost target for each plant = Kaizen cost target for the current year $(3) \times$ Assignment ratio (4).

Table 1: Computation of kaizen cost targets**Source**: Adapted from Monden & Hamada (1991)

Kaizen Costing Application Process

After a product is introduced, customers want increase in value of the product over time by greater value and lower cost. Plan of business demand a chain of incremental cost reductions (like 5% in a year) to stay in competition and cost-reduction activities are not ended with the completion of product design, they move to a new phase. The kaizen costing process is important and it is interactive process between management and work group employees. The kaizen costing method uses the target cost for cost reduction and it is calculated according to the principle of the standard cost. Kaizen costing system intends to reduce actual cost lower than standard costs and to achieve cost reduction targets. This system defines the yearly standard costs and checks the difference between standard and actual costs. When standard costs are not achieved then reasons are try to find out then accordingly decisions are made.

1. Setting Cost Reduction / Kaizen Cost Targets

In kaizen costing cost reduction targets are set for the product. The overall cost-reduction target is generally set at factory level then these targets are decomposed to departments and workgroups levels. When cost reduction targets are fixed the work groups are empowered with enough freedom to achieve these targets. Generally in kaizen costing only those product costs (variable cost) are considered, which can be openly controllable by the shop floor workers in company. The shop floor workers and supervisors involve in the cost-reduction activities and they work in their own ways. The previous cost of product is used as a starting baseline for kaizen cost reductions. Firstly the cost-reduction targets are set according to the market and after this the firm assign cost reduction rate to each department but firm should not assign a common cost reduction rate to every department because some areas may have huge scope for cost reduction by use of new technology or manufacturing methods while some areas may have little instant scope for improvement.

In kaizen costing management team leader sets cost-reduction goals for production processes and gives freedom to the workforce to find new ways to achieve these goals. To achieve cost reduction goals which are generally not easy but attainable, workers take a variety of actions and find new ways to speed up manufacturing processes. This system starts when there is a gap between total actual cost and kaizen cost, like equation:

(Total Cost – Kaizen Cost = Gap).

According to Modarress et al. (2005) there are two ways to set kaizen cost targets in the company namely top down path and bottom up path. In the first way cost reduction targets are set by senior management according to the plans of the top management then their cost reduction target are accepted by kaizen teams after discussion. In the second way cost reduction targets are set by kaizen team members then the team presents their cost reduction targets for the approval of top and senior management. Kaizen cost reduction targets setting ways are shown through the following figure.



Figure 1: Cost reduction target or kaizen costing setting paths

Source: Modified from Modarress et al. (2005)

After the production or introduction of a new product Japanese companies usually predict that production will need approximately three months to settle down or expect the target cost can be achieved at that time. If the costs are still too high after this period then this is the signal to initiate a major cost-reduction program. A project team is formed for the consideration and management of all costs. The project team works on the value-analysis approach that highlights and adjusts possible areas for cost savings. The project team may be formed for considerable changes in the business environment such as increase in prices of raw materials. The team focuses on the production processes and technology to meet the cost targets. Then efforts are made to find the possibilities to reach that target. Major cost reductions can be broken down into smaller reductions and then the activities are identified and approved by the project or kaizen team and then workers or group members through their own activities handle the work with suitable activities. Cost reductions are planned throughout the life of product and a continuing series of kaizen activities are desired for this. Kaizen activities and targets may vary depending on the type of cost like direct labour costs, for instance may be tackled by more effective use of labour, better training and planning and revised working practices. The results are measured after three months to evaluate the progress toward achieving its target. After this if work groups are failing to meet these targets causes are searched and these causes may be irrationally high targets, external factors beyond control such as supplier constraints. Costs must be later reduced in each following period to meet the target profit (Monden, 2000). To eliminate the suppliers constraints purchase department must build relation with suppliers. By clearing the necessity for continual cost reduction, determination of cost reduction targets and monitoring the targets can inspire the staff toward achieving the cost reduction targets.

2. Consideration of Variable and Fixed Costs

Kaizen costing is applied by value analysis. In kaizen costing kaizen targets are set for all plants and manufacturing processes. Cost of raw material is significant for cost reduction and it can be reduced by better manufacturing processes. Purchased tools or items for product are generally not allocated cost reduction targets for cost reduction point of view these can be purchased at a low price with suppliers' negotiation. Other variable cost is mainly centre of attention for cost reduction in kaizen costing which are reduced through value analysis. Fixed costs are not part of cost reduction. The cost reduction target rates are generally fixed for each product component and department only small changes are made in these rates (Monden & Lee, 1993). The company wide cost reduction target amount is allocated to each plant and these assigned target cost reduction rates in each plant may be higher or lower than the company wide rate (Monden & Lee, 1993). During decomposition of cost reduction targets different meetings are held at different levels of each plant for best allocation of targets (Monden & Lee, 1993). The total company wide target cost reduction target is actually decomposed among all cost elements. The kaizen cost improvement activities are very specific for every department in the company. Monden & Lee (1993) described that Japanese automobile companies like Daihatsu Motor Corporation prepares following six plans for cost reduction for the application of kaizen costing.

- Production, distribution and sales plan for expected margins from sales of product.
- Projected parts and material costs plan for purchasing department.
- Plant Rationalization plan for variable cost reduction in manufacturing processes.

- Personnel plan for labour cost reduction.
- Facility investment plan for depreciation and purchase of fixed assets.
- Fixed expense plan for non manufacturing costs reduction.

The general process of kaizen costing is shown in the following figure.





Source: Own calculation of the researcher

According to Monden & Lee (1993) in kaizen costing method for the evaluation of each department performance first actual cost reduction is computed then it compares with target cost reduction amount and variances are noted. These variances may be positive and negative and they are the indicators of performance. Variation in prices and wage rates are not reflected in performance evaluation but reduction in labour hour, resource usage and expenses are scrutinized (Monden & Lee, 1993).

Kaizen Costing and Innovation

According to Monden & Hamada (1991) kaizen the Japanese word and improvement the English word are two distinct concepts. According to Monden & Hamada (1991) kaizen refers to continuous accumulations of small betterment activities rather than innovative improvement and kaizen costing includes cost reduction in the manufacturing stage of existing products. Innovative improvement based on new technological innovations is usually introduced in the developing and designing stage (Monden & Hamada, 1991). Improvement can be defined as kaizen and innovation where kaizen is a strategy, maintains and improves the working standard through small, gradual improvements and innovation calls for radical improvements as a result of large investments in technology or equipment (Imai, 1986). Kaizen is unequal to the classic western manner of improvement because it creates the process for improvement by taking advantage of human factor and classic western approach is based mainly on the innovative operations being characterized by necessity of executing considerable investment in newest the instruments and technologies (Karkoszka & Honorowicz, 2009).

Kaizen means continuous small activities than big innovations. Innovation means introduction of new technological change in the developing and designing phase (Imai, 1986). Innovation involves an extreme improvement as an outcome of huge investment of resources in new technology or equipment. Innovation is viewed as an immediate quantum leap in technology while appropriate characterization of kaizen is to take baby step improvements in processes or methods over an extended period of time. Major innovations bring about remarkable results but they require large sums of money. On the other hand in kaizen continuous improvement through employees' suggestions represents an incremental ongoing process as one small invention is added to another and everyone can participate in using common sense to make logical improvements. When a constant stream of small improvements flow from all employees, a powerful force is set in the minds of employees. Kaizen involves a strategy of both maintenance and improvement. This is why kaizen has become an important tool of managerial strategy. The continual improvement process is just like a two wheeled vehicle or cart. One wheel of the cart is kaizen and the other is innovation. Kaizen costing works on kaizen philosophy and engaged in continuous cost reduction but without investment of high funds and technological innovation.

Kaizen Costing Vs. Standard Costing System

According to Monden & Lee (1993) the effectiveness of standard costing system is to control costs and it is being used for the last several decades and some authors compared standard with kaizen costing to reduce costs. Literature showed many differences between standard costing system and kaizen costing system. Monden (1995) explained differences between a standard costing system and kaizen costing and differences between these two terms are shown in following table.

Standard Costing	Kaizen Costing
• It is cost control system.	• It is a cost reduction system.
• Its goal is to maintain current manufacturing condition only not change.	• Its goal is continuous improvement in manufacturing conditions or to reduce cost lower than standard costs.
• Assume to meet cost performance standards.	Assume to achieve cost reduction targets.
• Cost variance analysis involving standard costs and actual costs	• Cost variance analysis involving kaizen cost targets and actual cost reduction amounts
• It checks the cost deviation and corrections are made when standard costs have not been achieved.	• It investigates and responds when kaizen cost target amounts are not attained.
• In the procedures of standard system standard costs are set for one or two times every year means annually or semiannually.	• Its procedure sets new cost reduction targets each month through continuous activities to attain target profits or to reduce the existing gap between the target and current costs.

• Not special activities are performed to	• Carries out kaizen activities during the
achieve costs.	entire operational year

Table 2: Differences between kaizen costing and standard costing methods**Source**: Adapted from Monden (1995), Monden & Lee (1993)

Conclusion

Kaizen is a way of thinking and this philosophy can be applied at any business. In previous studies both kaizen and kaizen costing concepts were considered similar but kaizen costing is different from kaizen. Kaizen costing is an important branch of this concept and it follows the kaizen philosophy. Kaizen concept includes continuous improvement in any field and kaizen costing is mainly related with cost improvement. Kaizen costing is an emerging method for change in an effective way and for continuous cost improvement. The secret of success of Japanese firms was the application of Kaizen philosophy and kaizen costing is accepted as improved part of this concept. Kaizen costing is implemented in business with the determination of cost reduction targets and with the involvement of all levels employees. Kaizen costing assists in continuous cost reduction with positive changes in possible areas. Kaizen costing is also different from innovation and cost control technique standard costing. Kaizen costing is worldwide accepted by manufacturing firms as an effective and optimistic way of working for continuous cost improvement. Kaizen costing is an economical way of improvement and unlike innovation it requires less funds and unlike standard costing it controls the costs of production with maintenance of existing performance level. Kaizen costing is better than innovation for change and better than standard costing to reduce costs of product. In competitive environment kaizen costing may be used by manufacturing firms as a better way of working for change and continuous cost improvement.

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