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For Big Green Tractor

Introduction

The fact that there is no other way of surviving and prolong our scarce and minimal supplies demonstrates the importance of sustainability in its broadest sense. In a nutshell, it is a strategy for surviving everything on Universe and giving it new life chances. It isn't surprising, then, that 62% of executives consider sustainability policy to be critical for businesses to be able to compete in today's world, while 22% believe it will be necessary in the future.

This proves that there is still a basic advantage of sustainable development, which is about becoming a significant advantage for the companies that have adopted it, but which are adopted as part of a primary strategy, because people would accept, now perhaps or afterward, only organizations are working to survive society, preserve natural resources, take care of the environment, and so on.

Organizational sustainability includes five dimensions:

1. **Direction:** means organizations' ability to visualize the future and find the best way to reach that future, and the ability to innovate strategically to facilitate the new business concept, forcing management to consider it in a permanent manner.
2. **Posture:** The position is about managing ethical values that will give organizations credibility and respect, and working reliably to stimulate good attitudes and critical behaviors that will help achieve high-performance results.
3. **Organization:** One of the core administrative activities that provides the organization with contexts of interaction with many different organizations and information systems to support objectives in different economic contexts while aligning strategies, organizational dimensions and responsibilities.
4. **Behaviour:** It means conduct that depends on quality as a general rule of organizations, such as following strict quality standards according to efficiency and

effectiveness patterns, and considering quality as a tool to control organizational performance to reach sustainability.

Eh. Evaluation: Evaluation means implementing procedures to analyze organizational performance in accordance with specific strategic options and objectives, providing the opportunity for quick and easy access to a wide and accurate set of information in order to streamline capacities and resources to address critical problems and opportunities.

The production and operations department of all types, sizes, and ownership of business organisations aims to achieve several more goals that contribute to enhancing the company's ironing position, increasing its successfulness, and achieve the objectives. These objectives differ in terms of prioritisation at the corporate and even national levels. The most important goals are:

- Cost: The cost is meant to produce at a reasonable cost so that the customer can buy the product easily as well as the cost is reasonable for the business organization so that it can achieve a margin of reasonable profit.
- Productivity: It is outside the total value of outputs on the total value of inputs and is an important indicator of the organization's ability to convert inputs into outputs so that the value of outputs is greater than that of inputs.
- Quality: means providing high-quality products that satisfy or match the customer's need.

In the case of Big Green Tractor, we note that the company has several major problems due to declining growth since the last few years. For this reason, the process streamlining practices of Big Green Tractor are great.

This report is a plan to streamline operations in the company and achieve the

sustainability of the environment and cost fluctuation with the latest technological tools.

The main objective of this report is to provide possible recommendations for managing operations, which can be used to address problems and challenges currently within the Big Green Tractor. The report therefore places strong emphasis on recommending cost-effective manufacturing procedures. In addition, various plans and practices to reduce defects in the Big Green Tractor manufacturing process have also been discussed in the report. For this purpose, many 21st century tools that are great for Big Green Tractor have been highlighted. Not only this, but also the report emphasizes the environmentally friendly methods that can be considered in the company to meet the challenges it faces. The report develops an understanding of the company's large corporate social responsibilities. In addition, the report also presents strategies for maintaining industrial standards for chemical waste disposal along with green alternatives to the traditional manufacturing process.

Operational procedures and directives

Procedural Manual Industrial Operational Simplification for Big Green Tractor

- **Excess cost reduction strategy:**

Increased costs are defined as slow accumulation of total costs over time and is considered an ongoing problem that reduces the Organization's capacity to act and is not identifiable in the short term, Nor is it a surprise event, so the Department is not excited to take action to get rid of it. At this point, there will be a need for greater effort to return to the level of past profitability, as there is no real, effective and sustained philosophy within the Organization to reduce hypothetical (increased) costs.

It is preferable for the company to adopt the Activity Based Cost System, which measures the cost and performance of activities and cost units by charging the cost to activities as the cause of the cost and thus the system is based on the fact that the activities are costly in increase or decrease and are referred to as cost engines, For example, the costs of generating activity are likely to be linked to a number of requests for proposals created and determining causation is a difficult process that usually requires gathering information on specific activities in order to understand the cost drivers of the specific operations. As a result, identifying the cost drivers requires understanding of their own activities and processes. The mechanism for the application of the activity-based cost system is through the following steps:

Step one: Indirect costs are determined in cost pools based on activities and these complexes differ in their concept and number from those used in traditional systems, The number of these complexes increases according to the number of cost-causing activities In the activity-based cost method, the number of cost pools used to aggregate indirect costs is higher than the traditional input, which collects costs as a whole in the case of using a single factory-level load rate or pooling indirect costs on the basis of section pools. The indirect cost pool in activity-based cost pools increases the number of such pools according to the number of cost-causing activities

Step II: Indirect costs are allocated to products according to the number of activities required for their completion. Measures of activities called cost causes are defined as any event or process that has led to cost expenditure. Final products do not consume the Organization's resources but consume different activities. These activities consume the Organization's resources.

Using modern technology in manufacturing instead of human resources, allows the company to benefit from reducing salary cost and increasing the company's productivity and quality of tractor manufacturing.

Modern technology has been distinguished in improving production efficiency and reducing time, effort, loss and cost as well as developing the production process and transforming raw materials, labour and machinery for high value products in the market.

- **Reduce operational costs**

Operational costs represent expenses paid by the company to operate the business daily such as: rent, maintenance of equipment and tools, monthly salaries and other expenses depending on the nature of the company's work. Companies are obliged to incur these costs on a permanent basis, thereby eliminating certain employees with a view to reducing operational costs.

- **Automation of different tasks at work:**

Automation is an appropriate means to reduce expenses and increase profits at the same time. Through automation, people can be dispensed with for certain tasks, which helps to reduce costs and employ people only for the necessary tasks. Besides the effectiveness of automation in carrying out tasks with high accuracy, contributing to the service of large numbers of people, which increases growth and profit-making opportunities.

- **Using creative and inexpensive marketing strategies**

There are many innovative, inexpensive marketing strategies that can be used to promote your project, while at the same time giving you the results you expect from marketing, helping you reduce costs, and keeping marketing activities effective.

- **Reduction of supply costs**

When it comes to wholesale supply costs, this will save them a lot, choosing suppliers wrongly may lead to lower corporate performance, lower customer satisfaction and higher purchase costs, and companies must reduce these costs. Through the use of historical and real data; To make evaluations and compare the prices of available suppliers, companies must choose the most reliable supplier, and obtain competitive prices in order to reduce costs and improve the delivery process.

- Improve production processes by trying to reduce damage, waste quantities, deviation of quantities in raw materials and analysis (deviation of quantity: The difference between the quantity actually consumed in production and the quantity that was supposed to be consumed, this analysis is based on a pre-planning of the quantities to be used), the improvements include efforts to achieve the above as well as the added quantities of materials that add value to the product

Comprehensive plan to reduce defects throughout the manufacturing process.

Big Green Tractor company needs an effective quality management system in the enterprise It allows it to analyze the customer's requirements, identify all productive processes and help ensure that the product is obtained with the required specifications

and make all processes therein under control and control. In addition, such a system for quality management, Should provide continuous improvements leading to product and process development through the following strategies;

Application of high quality systems: The tractor industry needs precision in manufacturing for the customer to buy, so a separate dedicated section must be created to ensure the production of tractors with high quality standards.

First, control of the quality of the inside materials inputs: the quality phase of the plant's inputs, whether primary, semi-manufactured or finished, is an important stage in the management of the overall quality. This requires appropriate specification of the procuring materials. Make the appropriate decision to provide materials and choose appropriate methods for the selection and receipt of materials (samples, inspection and testing of first coatings).

Second quality control during operation:

The core part of the series is the overall quality control of production. By monitoring the accuracy of machines, equipment and measuring devices, all steps to be taken for the machines to operate efficiently and effectively include:

Preventive maintenance programs, preparation, processing and storage of operating. cutting and measuring tools, in addition to determining the ability of the production process, monitoring the instruments used in measurement and calibration of measuring devices and sources of error.

Third, control the quality of the finished product - outputs:

After the product operation phase ends and the necessary parts quality is adjusted, the final product quality control phase comes after it is produced or assembled. All of this is through:

Adjust packaging, packaging, storage and ensure the quality of packaging and packaging, by conducting tests on the product after packaging.

Product quality control after sale and reliability include the following:

1. Tracking and identifying customers' complaints
2. Identification of spare parts for defective parts
3. Identify and study repairs, maintenance and customer service.

Reliance on effective manufacturing strategy in tractor industry

An effective manufacturing strategy has a whole range of goals that it seeks to achieve. It seeks to:

1. Sustainable competitiveness is achieved: by responding to customers' demands by economic units implementing the effective manufacturing strategy for design and delivery.
2. High flexibility is achieved: by meeting customers' needs commensurate with their renewed desires, the shift towards knowledge-based factories, computers and software in the production of tractors in accordance with desires requiring high levels of performance and rapid response to significant changes and competitiveness.
3. Achieving cost reductions: By helping them to enforce production steps from the first time and by forming a correct manufacture without manufacturing defects.

Smart manufacturing makes the industry more efficient, higher profitable, and longer

sustainable. Reducing the distances across which products and components are transported reduces both financial and environmental expenses.

Using 21st century tools to create a greener process

Modern technological development is easy for many companies to use in manufacturing processes and achieve better efficiency, and Big Green Tractor can utilize these tools to achieve better production efficiency and environmental sustainability

Robots and Software:

The robot is a multi-tasking machine, it can do the most complex operations that humans cannot do. It is also equipped with an operating system that makes it more flexible to take voice and electrical commands from workers as they intervene to correct its errors quickly and flexibly and can easily be moved from one place to another to perform other tasks. Because of his function, which inevitably exists among humans, he is familiar designed, It has eyes moving inside the LCD screen, flexible arms and hand-like hooks and does not intervene in heavy industries and falls into the duties of workers on the production lines at 6 feet tall and occupies the ordinary worker's space in the workplace, Relying on robots to manufacture tractors may save the company a lot of money.

2. Develop a socially responsible operational manual for large green tractors for their contaminants.

Industrial standards on chemical waste disposal.

Hazardous residues "are defined as residues containing organic or inorganic components or compounds that are harmful to human health or the environment due to their physical, chemical or biological properties, or having hazardous characteristics such as infectious substances, flammability, explosion or toxicity, and

so-called" Hazardous wastes with conditions", which are categories of wastes of a special nature resulting from specific production activities and processes and which require certain characteristics and requirements in order to acquire hazardous characteristics, the most important of which is the occurrence of external interference with them, both human and natural. production of electronic and electrical products, Recycling residues, used frameworks and used oils pesticide, industrial, pharmaceutical and pharmaceutical chemical packagings, asbestos pipes and bars and freon cylinders, lead-acid batteries and other hazardous waste types. (Heckenberg, 2011)

Wastes are divided into several types of hazard or quality, including:

- The term "benign waste" refers to materials whose existence does not cause major environmental pollution and allows for their fingertips in an environmentally responsible manner.
- Hazardous wastes are wastes that contain metals or irradiated compounds that can cause significant environmental issues. These hazardous wastes are produced as a result of industrial and chemical substances and wastes, as well as agricultural residues (chemicals used as reinforcements in agriculture).
- Solid waste: Waste composed of metals or glass... Waste from households, industries, and agriculture... It takes hundreds of years to decompose, and its presence is hazardous to the environment.

- Liquid waste is a fluid ounce that is created as a result of the use of water in various agricultural and industrial procedures. Oils and wastewater are examples of these. They are dumped in river or sea coastal areas.
- Liquid waste: is a gas or vapour produced by manufacturing rings, which escalates into the air through the factory's chimneys. These include: carbon monoxide, sulfur dioxide, nitrogen oxides, solid particles stuck in the air such as dust and some different metal atoms.

It is necessary to mix the remaining hazardous substances and hazardous residues from some of the hardened substances such as cement and mixed with water after mixing toxic substances in the other. Concrete blocks bound with toxic substances are buried in the prepared hazardous waste burial as well as the incineration and incineration of certain hazardous substances and residues in incinerators at a temperature of at least 1,200° C as fossil fuel substitute for their energy-generating qualities and the disposal of ash from incineration in the designated security burial cell.

And, the introduction of hazardous substances and residues into chemical or physical transactions that change their toxic nature and turn them into small or zero hazardous and toxic salts, Supplying food industry production sites with fragrance and sterilization liquids for substances and products bearing the recipe of infection without contamination with valuable or persistent non-organic pollutants, and then repurposing the product in the manufacture of non-traditional feed, energy production, organic fertilizer or safe burial and the use of the Entity's technical advisory services and guidance to identify the best means of safe disposal of industrial waste.

Incineration: Waste is incinerated in special ovens at 900 to 2000° C with the need to continue burning without stopping energy", this method is used to generate electricity and central heating, by exploiting heat energy from combustion in heating water pipes used in central heating systems as well as in producing water vapour that can be used for electricity generation. Notwithstanding the environmental importance of this method, it contributes to air pollution due to burning processes and toxic gases resulting therefrom, and this method is ineffective for some solid wastes disposed of through burial as well as ash from combustion; So a healthy dumping method is complementary to a burning and incineration method.

Green alternatives to the traditional manufacturing process.

- (a) Changing manufacturing processes that have an adverse impact on the environment as a result of their various polluting residues and emissions, so companies are changing key components of manufacturing processes or applying clean new technology.
- (b) reduce material intensity by reducing the quantities of resources used in each unit of the finished product, resulting in reduced product weight, reduced volume or the use of less intensive substitute materials.
- (c) Reuse of products such as old tractors with technical breakdowns
- (d) Recycling products to conserve and conserve environmental natural resources to be a renewable source, as recycling depends on the ease or difficulty of recovering raw materials from the remaining consumer goods after use and thus companies.

prepare various designs suitable for raw materials so as to facilitate the recovery of raw materials.

Recycling new products from old ones by adding some new parts instead of obsolete ones.

- (f) Reconfiguring the product by designing the products in a way that allows them to

be replenished when their performance begins to deteriorate by altering and replacing certain components that cause a performance problem.

In the researcher's view, green design to achieve its goals must depend on green product innovation to improve products and create a positive image of the organization.

Recommendations

Ultimately, the company should follow the strategies mentioned in the report to reduce the cost of operating operations and improve the company's performance. thereby achieving sustainable manufacturing that increases the quality of the brand and the quality of the manufactured tractors. It is necessary for the company to use modern technological tools to facilitate manufacturing processes, and save production expenses.

We recommend that the company improve its social participation to increase public awareness of its services in the Indonesian market

Corporate social responsibility, as well as the participation of environmental and social concerns, must be incorporated into a company's strategy. In practise, this means detecting and correcting flaws in their manufacturing process, constantly improving the quality of their products and increasing steadily their marketing and

advertising expertise in the broader market. As a result, they keep improving their social and environmental performance, as well as their competitiveness in the global. (Swaen, 2010).

Social responsibility has had several dimensions, such as economic, legal, humanitarian, and moral dimensions, and it is focused in certain arcas, particularly social work, anti-corruption, human development, employment, and environmental

conservation. The private sector's social responsibility is based on the stakeholders' theory, which states that the primary goal of capital is to generate and maximise value for all stakeholders including shareholders, partner organisations, supply chain partners, distribution companies, customers, employees and their families, the natural landscape, the society, and society as a whole. The private sector's social responsibility is a critical tool for achieving this goal, as is the business community's political, economic, social, and environmental stability.

Corporate social responsibility is about acting in a socially responsible and accountable manner, not only for property rights holders but for other stakeholders. including employees, clients, government, partners, communities and future generations.

The company should increase its overall sales by leveraging modern technology and digital transformation through e-marketing as it provides the potential for significant customer relationship development, Where there is constant interaction, some customers object because they see it as an invasion of privacy, but the use of voluntary reporting techniques is becoming more popular among people. especially among those who frequent commercial websites Electronic marketing will be inexpensive for the company, and it will be able to target farmers and businesses

online. Aside from the option of ordering the commodity directly through the company's website, traditional marketing cannot directly request the commodity through customers.

Reducing the carbon footprint of tractors during the manufacturing process, and the carbon footprint of a product or service includes all direct and indirect emissions generated throughout the product or service life cycle, from raw material extraction to the use phase; So Big Green Tractor prefers to use clean energy and recycle obsolete products.

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