



Main Aspects of Increasing Efficiency in Light Industry

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ABSTRACT

Population and population density estimates become more difficult to make in countries with rapid population growth, shifting immigration patterns, and other forms of unpredictable demographic change. It is, therefore, crucial to conduct a population count rapidly and cheaply; one viable option for doing so is to make use of satellite photos that feature thermal bands. We used a method (Spatial Analyst) and an idea from statistics that deals with clusters of data to determine the arithmetic means of the correlations between land surface temperature and population density. This study makes use of 2019 Landsat satellite pictures and population density information collected from the Kirkuk Governorate. The calculated conversion factors were the result of applying spatial analysis and statistical analysis to the 13 regions we provided. 2300.00, 898.65, 830.81, 668.65, 585.49, 559.66, 509.28, 452.69, 412.71, and 241.57 for temperatures of 30.5, 31.5, 32.5, 33.5, 34.5, 35.5, 36.5, 37.5, 38.5, and 39.5 Celsius respectively.

Keywords:

Light industry, profitability of production, management efficiency, gross proceeds, modernization of production.

Introduction. Uzbekistan's transition to market economic relations and its entry into the World Trade Society have determined new conditions for the activities of enterprises and organizations in the domestic and foreign markets. The requirements for the quality of products, works and services, an important aspect of multifaceted commercial activity, have sharply increased. Standardization, metrology and certification are instrumental in ensuring high quality of products, works and services.

One of the most important factors for the success of any organization is the quality of its products or services. In the modern world, the survival of any company, its stable position in the market of goods and services are determined by the level of competitiveness. In turn, competitiveness is

associated with two indicators - the level of price and the level of product quality. Moreover, the second factor gradually comes to the fore. Only when a high level of quality is achieved, Uzbekistan will be able to fulfill its strategic task - to enter the world economy not as a raw material appendage, but as a harmoniously developed, advanced country with a high technological level that meets the challenges of the 21st century.

At present, the requirements imposed by the consumer on the quality of products have noticeably increased all over the world. The very concept of quality has changed. Mere compliance of products with documented requirements is clearly not enough. Life shows that it is necessary to work not for a document, but for the market - for the consumer. That is why quality is beginning to

be seen as the conformity of products not so much to established requirements as to the needs of its consumers.

Methods. Methods of a systematic, integrated approach to the studied economic phenomena, as well as statistical methods, expert assessments, and economic and mathematical modeling were used as research tools. The theoretical and methodological basis of the dissertation research is the theoretical methodological provisions of standardization and certification of the activities of national companies contained in the works of scientists from developed countries and the Republic of Uzbekistan.

Results. Despite the competitiveness of the products of UZTEX GROUP LLC, there are reserves to increase its competitiveness.

One of the factors contributing to the increase in the level of training and labor intensity of UZTEX GROUP LLC is the presence of a modern and effective motivation system. It is necessary to change and supplement the existing management structure as a management process in the field of UZTEX GROUP LLC.

First, it is necessary to create a management structure focused on marketing. In the first phase, the implementation of an advanced sales management structure can be achieved through the simultaneous establishment of a marketing department for ease of transition and the implementation of a marketing platform to integrate internal information flows. The second stage involves the creation of a holistic marketing management structure, where the marketing department plays the role of planning and controlling all other areas of enterprise management.

Secondly, it seems necessary to introduce the basics of project management as the basis of a program-targeted approach to building a dynamic and flexible management structure. The essence of this program is to create a small working group of the product system in the following areas:

- product quality - production personnel, salespeople, lower managers;
- development - technologists, designers, top managers;
- Funds - economists, financiers, middle managers.

In the future, as the accumulated experience is concentrated and processed, a transition to a full project management method will be achieved with the subsequent transformation of this management structure into a program goal.

Changes in management effectiveness are associated with general and specific problems.

General - the introduction of strategic management in the enterprise. The main feature of this type of management is the planning and forecasting of activities for the long term, which allows for a more efficient distribution of the available resources of the enterprise. A special, usually unsatisfactory situation is associated with the financial performance of the enterprise in question.

Financial management contributes to the improvement of managerial oversight and analysis through the use of rigorous evaluation procedures and clear quantitative indicators. In addition, financial management helps to better manage financial resources and cash flows.

When implementing all of the above methods in the current period, UZTEX GROUP LLC should help to be competitive in the market of the Republic of Uzbekistan and improve the financial and economic position of the company in the medium term.

Thus, the implementation of these measures will optimize (increase) the sales volume of UZTEX GROUP LLC, which is declining this year due to the pandemic, and (according to the results of financial analysis) increase the competitiveness of the enterprise.

To ensure and maintain the quality management system in working condition, it is necessary to allocate the necessary resources for the implementation of the quality policy in UZTEX GROUP LLC: human; infrastructure; working environment; financial

The determination of the need for resources should be determined at the

beginning of the year on the basis of organizational and technical measures and, in addition, the results of the analysis of maintenance and preventive work, the quality management system.

Resource management should be carried out by the management of the enterprise to maximize customer satisfaction through the implementation of a quality management system, continuous improvement of productivity, efficiency and effectiveness.

Human Resources Department. To perform the tasks and functions assigned to the structural divisions of the enterprise, employees have the appropriate knowledge, skills, personal qualities, are fit for health reasons, use their knowledge and skills to achieve goals.

Analyses. The Uztekstilprom Association is working on a full basis to improve the quality of products, certify them in accordance with the requirements for textile products in foreign markets, promote national clothing brands in foreign markets and register trademarks, and

increase the prestige of Uzbek textile products. It should be noted that today the textile industry enterprises are leading in the implementation of international standards in the country, and more than 1,300 enterprises have already implemented international standards.

The State Program for the Implementation of the Strategy for Actions Concerning the Textile and Light Industry sets the task of increasing the volume of competitive industrial goods, increasing exports, which means the inflow of foreign currency, attracting investments for the acquisition of high-quality technologies.

The objectives of the analysis of the financial condition of the enterprise: the implementation of the financial plan, the correct or incorrect distribution and the correct or incorrect use of funds, the determination of the self-financing of the economy, compliance with work plans and accounting discipline, the use of Bank loans, the repayment of the farm, the ability to study the turnover of working capital.

Table 1
Analysis of economic indicators of UZTEX GROUP LLC
for 2019-2021.¹

№	Indicators	Unit.	2019 y.	2020 y.	2021 y.
1.	Product sales revenue	тыс.сум	151200,0	198720,0	237910,0
2.	Products sold	тыс.сум	145678,0	178910,0	214567,0
3.	Cost of goods sold	тыс.сум	125672,3	156768,9	198674,5
4.	Profit before tax	тыс.сум	94567,9	98678,9	100456,7
5.	Net profit	тыс.сум	75654,3	78943,1	80365,4
6.	Cost of fixed assets	тыс.сум	98867,0	98867,0	100567,7
7.	Capital investments	млн.сум	45367,0	48767,5	51234,6
8.	Amount of workers	Чел.	30	32	35
	including production staff	Чел.	25	27	30
9.	average salary	млн сум	280,0	345,0	457,0

¹Reporting data "UZTEX GROUP"

Table 1 shows that the volume of production in 2019 amounted to 151200.0 thousand soums, and in 2021 - 237910.0 thousand soums. The main source of financial

analysis is the balance sheet. In this case, financial plan data and current accounting data are used

Table 2
Analysis of economic and financial indicators of UZTEX GROUP LLC for 2021 ²

№	Indicators	Unit rev.	Plan	Reality	Implementati on of a plan, %
1.	Product production capacity	thousand soums	213457,8	237910,0	111,4
2.	Product sales revenue	Thous.s.	320186,7	321850,5	100,5
3.	General manufacturing costs	Thous.s.	204323,5	219674,5	107,5
4.	production cost	Thous.s.	185067,9	198674,5	107,0
5.	Needed Benefits	Thous.s.	19255,6	21000,0	109,0
6.	Net sales	Thous.s.	115863,2	102176,0	88,2
7.	Cost of goods sold	Thous.s.	142345,8	134587,9	94,5
8.	Selling costs	Thous.s.	9450,0	10800,0	114,3
9.	Administrative costs	Thous.s.	9805,6	10200,0	104,0
10.	Gross profit	Thous.s.	109890,7	100456,7	91,4
11.	Income tax	Thous.s.	21978,1	20091,3	91,4
12.	Net profit	Thous.s.	87912,6	80365,4	91,5
13.	Profitability of sales	%	34,3	31,2	-
14.	Net return on sales	%	27,4	25,0	-
15.	Profitability of production	%	41,2	34,0	-

²Reporting data "UZTEX GROUP"

Table 2 shows that the increase in production volumes of UZTEX GROUP LLC by 11.4% exceeded the planned sales revenue by 0.5%, total production costs by 7.5%, production costs by 7.0% led to an increase. In 2020, the cost of sales of the company amounted to 10,800.0 thousand soums, which is 14.3% more than the plan. The plan of

Table 3

"Analysis of production and sales of products in UZTEX GROUP LLC for 2019-2021.³

No	Indicators	Unit.m	2019	2020	2021
1	Product production capacity	thous and soums	15120 0,0	19872 0,0	23791 0,0
2	Consumer goods	thous and soums	15120 0,0	19872 0,0	23791 0,0
3	Volume of products sold	thous and soums	14567 8,0	17891 0,0	21456 7,0
4	Stocks of finished goods	thous and soums	5522, 0	19810 ,0	23343 ,0

The data in Table 3 show that in 2021, compared to 2020, the volume of production at the enterprise increased by 157.3%, consumer goods - by 157.3%, sales - by 147.2%.

Thus, despite the fact that the management system of UZTEX GROUP LLC has not been certified for more than a year, 6 quality system documents have been revised and new editions have been adopted. Based on the specifics of the activity and the specifics of the technology, UZTEX GROUP LLC has identified a network of key processes that ensure the quality of products and services provided by the company for its delivery to retail stores and regions.

administrative expenses for 2021 is set at 9,805.6 thousand soums. In fact, this figure amounted to 10,200.0 thousand soums, having increased by 4.0%.

According to the data, the plan for the company's gross profit was fulfilled by 8.6%. Table 3 presents an analysis of the production and sales of UZTEX GROUP LLC for 2019-2021.

Discussion. The main goal of creating the ISO 9000 series of standards was to develop requirements for the activities of an organization, the fulfillment of which would indicate the ability to produce products in strict accordance with customer requirements. The standards contain a number of requirements that the organization implements in the most acceptable way for itself in its activities. Thus, the quality system is built individually for a particular organization in accordance with its goals and objectives, the specifics of the external environment and the internal characteristics of the activity.

The quality management system, developed in accordance with the ISO 9000:2000 series, is a management subsystem based on a structured package of documents that regulate the main aspects of the enterprise. The documentation of the quality management system should describe the activities of the enterprise, especially those processes that significantly affect the quality of products. A documented description of key business processes ensures that they are clearly understood, managed and continuously improved.

The concept of the ISO 9000 version 2000 series of standards is based on the process approach, according to which the activities of an enterprise are described as a series of interrelated processes, by controlling which the enterprise improves its own activities. In accordance with this approach, each process in the organization should have its own owner, who is responsible for the process, monitors and analyzes its effectiveness, and is also responsible for its correction. Periodic monitoring and adjustment ensure continuous improvement of the enterprise's business processes.

³Reporting data "UZTEX GROUP"

The implementation of a quality management system involves the involvement of personnel in quality improvement activities, which allows the company to more fully and effectively use the abilities, knowledge, skills and abilities of its employees. Involvement of personnel in quality management activities and a specially built motivation system increase employee satisfaction and positively affect the results of their activities.

The introduction of a quality management system allows you to reduce the costs of the enterprise for the detection and elimination of defects, as well as external and internal losses caused by defects and inconsistencies. An effective quality management system can also reduce management costs; control, analysis and revision of processes ensures their continuous improvement; The distribution of powers and responsibilities of personnel provides for mechanisms for monitoring the performance of duties and measures to prevent negative results. As a result, the company becomes more transparent for its managers and (if necessary) for the external environment, increases the accuracy, quality and efficiency of management decisions.

Quality improvement, in terms of international standard definition, means that products are made more in accordance with customer requirements, which leads to increased product satisfaction and, as a result, increased customer loyalty and increased sales.

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