
INTEGRATION OF SCIENCE AND PRODUCTION

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ABSTRACT:

The article focuses on the deepening of the integration of Science and production at a new stage of reforms, the priority importance of the wide introduction of scientific and technical achievements into practice, the extreme difficulty of occupying a place from the domestic and foreign markets without the technical and technological renewal of production enterprises, without the application of innovations in the current

Integration of Science and production cotton is becoming decisive in the development of the cleaning industry

No matter which sphere, the basis of its development lies in science, knowledge. Therefore, priority attention is paid to deepening the integration of Science and production at a new stage of reforms in our country, wide implementation of scientific and technical achievements in practice. It is not surprising, of course. Because in the current conditions, where competition is growing day by day, it is very difficult to occupy a place in the domestic and foreign markets, without updating production enterprises technically and technologically, without applying innovations.

In fact, this legality of the market economy is a great impetus for the application of resource efficient techniques and technologies to the cotton cleaning industry, a wider use of new business. "Pakhtasanoat scientific center", which has a centuries-old history, closely supports the scientific research, experience and design work, which are the products of many years of research of the scientific team of the stock society. As a result, an increase in the efficiency of the activities of cotton processing enterprises is achieved.

JSC "Pakhtasanoat scientific center", which was considered the legal successor of "Central Research Institute of cotton cleaning industry" ("Sniixprom"), the only one in the former Union, was established 95 years ago. On September 3, 1926, the 50th Reserve plant

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in Tashkent City will become the first experimental cotton cleaning plant with the functions of a scientific institution. At the same time, the problems of cotton processing are studied and resolved on the basis of scientific approaches for the first time at this experimental plant, which was chosen among the survivors of 296 cotton-growing enterprises in Turkistan until 1917.

In 1936, after the experimental plant became the Central Research Institute of the cotton cleaning industry, it operates as a scientific organization coordinating all issues of the field of primary processing of cotton.

In the activity of this institution, which has a rich history, it should be said that the decree of the president of the Republic of Azerbaijan "on measures to radically improve the activities of the stock society" Pakhtasanoat scientific center on February 23, 2018"made a radical turn.

According to this document, the activities of JSC " Pakhtasanoat scientific center " were carried out, the status of which was further increased, new tasks — participation in the development and implementation of the unified state scientific and technical policy in the field of cotton processing, implementation of scientific-technical and innovative activities within the framework of the initial processing of cotton, development of normative-technical, instrumental and organizational-methodical documents regulating the activities of Network Enterprises, improvement of the qualification of specialists in the field through educational processes, , within the framework of the creation of a full period of innovation from scientific research to the completion of scientific and technical products and introduction into cotton cleaning enterprises, the implementation of research, experimental and design work was entrusted.

It is natural that the question arises: what effect do such changes have in practice?

First of all, a program of measures for the qualitative development of the technique and technology of preliminary processing of cotton was developed, within which a number of systematic work was carried out in 2018-2020 years. Speaking about this, it is worth noting that in the last two years about 10 topical research works have been carried out, more than 10 machines and equipment have been created and introduced into production by our scientists. Machine-made cotton efficient cleaning equipment, improved cotton dryer, fiber separator regenerator from waste, automated modern energy-efficient gin equipment, improved fiber feeder, automated linter equipment, acoustic, which determines the quality indicators of cotton fiber, automated laboratory equipment that detects the contamination and moisture of the cotton raw material grade, acoustic equipment that express the grain's toughness, combined cotton wool yarn Ultimately, in the framework of the projects with the participation of the scientific center only in 2020, the total value of 1.6 billion. Was divided into 8 types of products managed to produce.

It should be noted that JSC " Pakhtasanoat Scientific Center "considers the requirements for the quality of products by more than 40 applicable state standards together with the technical departments of" pakhtasanoat " under the scientific center as the base Organization for standardization of cotton and cotton products. Until now, the technical conditions for cotton, cotton wool, technical hemp, cotton wool and the state standards of testing methods for these products have been harmonized with the standards of international and developed countries, and appropriate changes have been made on the basis of modern requirements.

Today, the scientific center has also organized a "school of classicism" for the initial processing enterprises of cotton in cotton-textile clusters. Here, it is taught to prepare the appearance samples (ethalones) of cotton raw materials, to produce and repair the measuring, testing, analysis equipment and equipment necessary in the activities of the Central and preparatory laboratories, to adjust the intermediate gaskets and aerodynamics of equipment on the basis of technological regulations, to determine the grade and grade of fiber in the modern laboratory classicism.

In addition, the scientific center provides training and retraining of specialists in the field by organizing short-term training courses. In particular, over the last two years, about 1700 specialists have been trained, their knowledge and skills on the production and repair of samples of machinery and equipment and parts created on the basis of new scientific developments for cotton processing, conducting preliminary analysis on the determination of fiber spinning and relative strength of coil yarn have been increased.

In the following years, international relations are increasingly strengthened by the scientific institution. As a result of this, the exchange of experience with foreign experts and researchers is accompanied by proposals on regional and global problems. Interaction with, in particular, the International Cotton Association, the International Cotton consultation, the International Cotton Research Association, the Asian Cotton Research and Development Network, is an important factor that has reached a new level. Currently, work is being carried out in cooperation with specialists in drip irrigation systems in the form of rain from Israel (Yuav Ben ari and Eliad Sassoni), a specialist in obtaining new varieties and high yields from Australia (Richard Leske), a specialist in water resources (Timothy Harrold), a specialist in the fight against Guinea pests from India (Deepak Singhal). These specialists are involved in short-term training courses organized by the Scientific Center for workers of cotton-textile clusters for reading and exchange of experience.

As a result of the effective work carried out jointly, confidence in the scientists of our country increases in the international community and interest in their inventions increases. The fact that the head of the scientific center was elected chairman of the Asian Cotton Research and Development Network for a period of two years in 2019 is a practical confirmation of this. Therefore, during the activity of this scientific center in our country for the past century, about 20 doctors of Sciences and more than 70 candidates of Sciences were trained. Patents for 583 inventions and useful models were obtained by them.

In the center, the scope of research work, which is aimed at digging a well with a needle, is being carried out further. Currently, 6 doctors of technical sciences (DSc), 7 candidates of technical sciences and 7 doctors of philosophy in technical sciences (PhD) are engaged in research and implementation work aimed at solving the problems of the cotton cleaning industry. Also, 27 employees are carrying out scientific research for obtaining the degree of Doctor of philosophy and Doctor of philosophy.

The scientists and their followers, who have created a school with specific research principles in the problematic areas of the sphere, are seeking to develop cotton-cleaning enterprises operating in the structure of cotton-textile clusters of our country today, to find solutions to the existing problems in the system and to make a worthy contribution to increasing the competitiveness of our economy.

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