

## Improvement of the Methodology for Increasing the Efficiency of Cotton Textile Activity

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**Abstract:** The cotton textile industry has long been an important sector of the global economy, providing clothing and other fabrics to populations worldwide. However, like many mature industries, cotton textiles face ongoing challenges to improve efficiency and reduce costs in the face of increasing global competition. This article will examine potential methodological improvements that could help boost the productivity and profitability of cotton textile activity.

**Keywords:** cotton textile, industrialized countries, industry, developing fields, technology.

**Introduction:** In the horticultural area, it is particularly vital to lead explores on the turn of events and cost-viability of the creation, handling, and conveyance of items to shoppers. During the time spent concentrating on monetary proficiency in farming creation, the examination of hypothetical information requires a qualification between the ideas of "viability", "effectiveness", and "financial productivity". "In financial matters, the ideas of 'proficiency' and 'monetary effectiveness' can be characterized by a nation, industry, undertaking, circle, and individual item.

The idea of monetary proficiency has a more extensive significance than the idea of productivity. Monetary proficiency is the expense related with the exercises completed during a year (a specific period), contrasted with how much net benefit got subsequently. Then, the higher how much net benefit got by the costs made, the higher the degree of monetary productivity, as well as the other way around.

In the last 15-20 years, there have been tremendous changes in the advancement of the material business on the planet. During the globalization of the world economy, the focal point of material creation was moved from Europe and the USA to the emerging nations of South America, Southeast and Focal Asia [1,2]. In most emerging nations with low per capita Gross domestic product, the material business is developing quickly. Center pay nations supply themselves as well as adjacent territorial business sectors with materials. In created nations, aside from specialized textures, practically no material items are delivered. Interest for buyer products is for the most part met by imports. In Europe, the foundation of auxiliary material endeavors is progressed, and this prompts an expansion in the material exchange balance. Nations with huge stores of unrefined substances additionally import material items.

Today, on the planet, logical exploration is being led in imaginative bearings in light of the association of creation of material items, its utilization, quality improvement, trade level. Association of the creation of superior execution manufactured strands and material textures in present day conditions, as well as the creation of "brilliant" material textures, electronic material

textures, dynamic textures, as well as against microbial textures and instant garments for the imaginative improvement of the weaving and sewing industry. research is being led.

In Uzbekistan, extraordinary consideration is being paid to the financial modernization of such significant areas as weaving, silk and fitting, as well as the association of the creation of exportable, great items, and the association of the development of serious material items. Today, the need undertakings confronting material endeavors are "To extend item quality, make ideal circumstances for quick turn of events and broadening of the business, high level handling of semi-completed items, and increment interests in the commodity of completed material items". The accessibility of an unrefined substance base for material creation ought to be the reason for the improvement of the cotton fiber handling material industry of Uzbekistan.

It is fitting that the execution of the quality administration framework in light of the cycle approach has shown its viability in numerous neighborhood and unfamiliar undertakings and is turning out to be progressively significant as one of the significant headings of expanding the seriousness of the endeavors of the material business of the republic. Extending the field of logical examination on the acquaintance of a mechanical methodology with the board in the association of the exercises of ventures delivering top notch material items in changing economic situations.

One of the significant parts of guaranteeing the seriousness of material items in the present changing economic situations is to build the degree of item quality.

Item quality administration is a bunch of activities to carry out, guarantee and keep up with the expected degree of item quality during plan, creation and use. The presentation of the necessary quality level is done based on the examination of the most progressive logical and specialized accomplishments in our nation and abroad at the phase of planning material items [2].

As indicated by the article, the fundamental phases of presenting, keeping up with and guaranteeing the essential degree of nature of material items by presenting a quality administration framework in light of a mechanical methodology depend on the accompanying:

- expecting the interest for material items and their quality;
- arrangement of value level, planning of administrative and specialized records considering the accomplishments of logical and specialized improvement;
- investigation of the organization's abilities;
- material and specialized arrangement with great materials;
- specialized planning of creation, advancement of innovative cycles, arrangement of machines and hardware;
- arrangement of renting administrations as per significant administrative and specialized records and norms;
- deciding the nature of fabricated material items;
- warehousing, transportation and offer of the nature of the delivered items;
- deciding and assessing the degree of fulfillment of clients and shoppers with item quality.

Considering the request, the creation program can be made in two phases. Simultaneously, in the principal stage, the improvement standard is to decrease the hour of request or creation cycle, and in the subsequent stage, to expand the benefit got during the creation cycle. The two standards don't refute one another, for example time and cash standards. Specifically, accomplishing high productivity with proficient utilization of time is the primary measure. Simultaneously, productivity is predominantly accomplished by improving the connection between these two markers.

## **Methodology.**

Simultaneously, particular kinds of items are not set for every particular time span, but rather are determined. A creation cycle is characterized for each made request. The organization intends to deliver different sorts of items during the announcing time frame. Simultaneously, it is attractive to decide markers, for example, material and work assets per item unit, as well as item cost and cost [4]. In any case, the degree of expenditure of these assets is restricted. Since surpassing utilization guidelines will hurt the venture. Arranging the volume of creation for each sort of item for the arranged period in the enterprise is essential. The point of the review is to foster logical and systemic perspectives and reasonable suggestions for working on the proficiency of the horticultural area in view of the improvement of inter-sectoral financial relations and the advancement of combination agro-arrangements in the cotton complex.

## **Discussion.**

Cotton developing is described by a particularly irritating issue as a low level of reconciliation and participation of laborer ranches with different members in the cotton and material market, which makes it important to utilize new ways to deal with the successful working of the cotton complex. This, specifically, concerns the issues of guaranteeing the practical advancement of its natural substance base, profound handling of cotton, working on the association between undertakings for the creation, handling and advertising of cotton items, expanding their seriousness, and carrying out powerful proportions of state support and regulation.

Despite the presence of great financial circumstances for modest unrefined components, work and the developing necessities of the world and local business sectors for important items (yarn, cotton textures), the monetary system for the working of the business isn't pointed toward accomplishing reasonable end-product, creating collaboration and combination processes in the business, which prompts to critical misfortunes of the state spending plan and misfortunes of cotton makers and, by and large, low proficiency and seriousness of the cotton complex [5,6]. In such manner, generally new essential headings are required for the turn of events and expansion in the productivity of the cotton complex in light of participation, reconciliation and grouping, the advancement of viable administration components, and the improvement of hierarchical and financial relations in the creation cycle, profound handling and offer of cotton complex products.

The logical arrangements and suggestions planned in the work make it conceivable at a higher logical and down to earth level to tackle the issues of working on the proficiency of the working of ventures in the arrangement of creation, handling and promoting of items, the advancement of commonly gainful monetary relations between undertakings of the cotton mind boggling, associated by a solitary mechanical cycle from the development of crude cotton to completed items and enactment of combination processes. Its reasonable importance lies in the systemic validation of the improvement of joining processes in cotton developing, the advancement of models, proposals expected for direct use in the turn of events and the board of the business.

## **Analysis and results.**

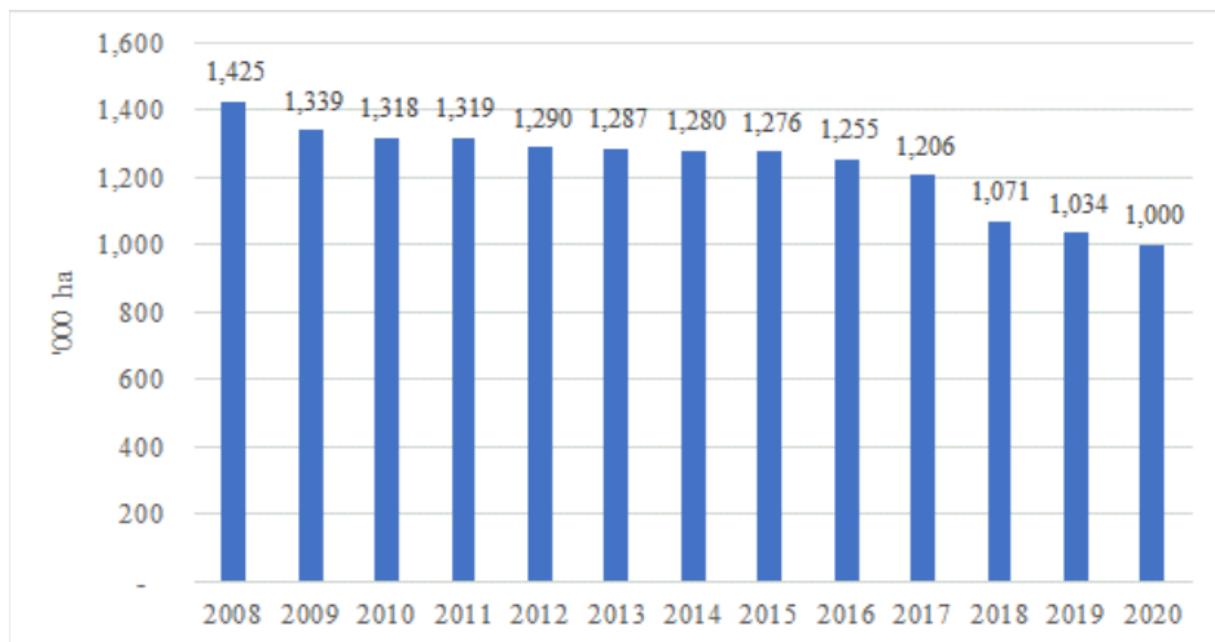
Because of the advancement of cotton-material bunch frameworks, material, homegrown sewing and knitwear items have now gotten wide acknowledgment and are provided to in excess of 70 outside nations, the volume of yearly commodities in the circle in 2022 has nearly significantly increased contrasted with 2018, fundamentally surpassing imports. Share of products of material items in 2021-2022 expanded altogether, the portion of imports, running against the norm, would in general decay, which permits us to reason that the material business of the republic is send out arranged.

Notwithstanding the assurance of the absolute cotton developing region, the concentrated regulatory choices were utilized explicit "cotton assortments" in different pieces of the country. It implies that the last approach choice of cotton assortments was not with ranchers or bunches, but rather with neighborhood specialists, whose choice depended on obsolete suggestions to

embrace allocated seeds for each agrological zone. Frequently, the assortments picked were with attributes that are not generally requested on the lookout or not reasonable for creation states of explicit areas.

Consistently the GoU allocates the region to develop cotton under the harvest arrangement framework. In 2008, the cotton developing region was 1.4 million ha (table 1). In 2020 it is normal to be 1.0 million ha or 28% not exactly in 2008. The significant diminishing in cotton developing region happened during 2017-2019 because of the choice to differentiate agribusiness. The reduction of 400,000 ha north of 12-year time frame is a critical accomplishment, comprising in excess of 10% of Uzbekistan's complete flooded collected region (around 3.5 million ha).

**Table 1. Cotton growing area, '000 ha, 2008-2020**



As indicated by the Goal No. 4633, the GoU will keep up with the arrangement of yield arrangement for now, under which the cotton developing region is appointed by the state. It will remain set up until 2023, as per the Procedure of Horticulture Improvement during 2020-2030, and it could ultimately be stretched out because of the absence of adequate monetary space to supplant this instrument with region/yield sponsorships, utilized by different nations to empower cotton creation, which stays a high need in Uzbekistan.

US Division of Agribusiness 2023 (USDA) report shows that Uzbekistan's cotton area is going through eminent changes underway, utilization, and industry rehearses. For the showcasing year 2023/24, cotton creation is assessed at 621,000 metric tons, while utilization is determined to be somewhat lower at 599,000 metric tons. The decrease in cotton utilization is credited to diminished interest for cotton yarn and texture from bringing in nations like Turkey and Russia, lining up with a worldwide decrease in prepared to-wear clothing interest [6].

The public authority's choice not to uphold a base cost for crude cotton, combined with the capacity for ranchers to pick the group to sell their cotton inside their district, mirrors a change in market elements. The presentation of a cotton trade for surplus crude cotton further stresses a move towards a more adaptable and market-driven approach.

The Uzbek Relationship of Cotton-Material Groups (UACC) reports the presence of 142 cotton bunches, eight a greater number of than the earlier year, demonstrating a developing pattern in upward coordinated privately owned businesses engaged with cotton creation, ginning, and turning.

## Conclusion

With diligent efforts to upgrade harvesting methods, streamline material flows, modernize machinery, and integrate advanced techniques, the cotton textile sector remains poised for significantly boosted efficiency and competitiveness in global markets. A systematic, methodical approach to identifying and addressing productivity bottlenecks holds great potential for restoring profitability and ensuring ongoing relevance of this foundational industry. Ongoing research and technological progress indicate further promising avenues for improvement remain on the horizon.

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