

**THE FOOD INDUSTRY OF IRAN ISLAMIC REPUBLIC**

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Complex, which for education and research was established in 1374 from the Supreme Council to expand the license agreement to establish a research group received.

Food industry complex with 4000 square meters production workshop with 3 districts, Sardakhankhay above zero and below zero, boiler plants and compressed air.

**Key words:** food industry, increase of the foodstuff production In Iran Islamic Republic

Today, in developed countries and some developing countries, biotechnology is rapidly taking place and as a result of the development and growth of investment in research and education in this area, the remarkable help of various sciences, especially medicine and agriculture has been.

The active lines of the complex include: a) Canned food production line b) Canned food production line , d) Jam production line e) Grain production line, lemon juice and water sour , g) Broiler production line ,

Dairy production line

The fact that the growth of the science of biotechnology, songs and its all-round, if the right goals and guided in economic and social progress throughout the world including our country could play a role, especially professionals and all involved in the country's macro-planning are not covered .

With the growth of population and the decline of natural resources, food production, medicines and the use of these processing steps can help a long way to improve cultivation methods, was finally removed and stored and processed food, as well as convert waste and waste, as well water and wastewater industry and agriculture with high added value Fraurdahi be the only aspect of his work and the disposal of valuable materials, but also to qualify such materials, which mainly contain high BOD and COD presented to the environment and at the same time prevent access to the positive impact of the mentioned environment and safety will also follow.

The biotechnology research center can be built as the original purpose in the formation of the above to act in such a way that the problems of the existing units to a large extent be solved through mutual cooperation and the potential addition of new construction units have been studied and well-documented and reasonable proposals for the industry given.

Obviously, the research center to be successful and interested and qualified human resources in the premises and equipment, as well as an important tool of the Agricultural College fortunately, this situation. It is hoped that the success of building an environmental biotech research group in achieving the objectives of the program will be presented to the cooperative.

**Program Plan for the Environmental Biotechnology Research Group**

1. The use of biochemical huge potential of microorganisms, plants or their components to improve the environment and rational use of available resources in the environment.
2. Research and study about the possibility of replacing raw materials used in some industries with materials that are mainly industrial water known.
3. Access to power and application of food contamination detection and dietary assessment methods to ensure the health and quality of raw materials produced or imported through biotechnology
4. Founder and established field of biotechnology in the food industry and train skilled labor for the needs

**Dairy products:** Milk and dairy products are the main source of animal protein, vitamins and essential fatty acids in human nutrition, especially in children. The most important source of dairy production in most countries, including Iran, is the cow. Words and dairy products in the food industry include many products such as cheese, yogurt, cream to eat. Normal mammary glands secrete milk in all mammals that secrete the purpose of feeding animals in nature. the main components of milk are: (water 88% - 86), fat (6% -3), protein (4% -3) lactose sugar (5%), materials and minerals Fsfrh (ash) 7 / 0 percent, according to which these materials in various animal species and the environment, and almost physiological indicators. This degree of animal diversity in the milk processing operation is an important finding. Since today, hundreds of different food and dairy products are being produced all over the world, and dairy products in human nutrition are of great importance. The various methods of processing dairy products are currently the most important research topic among dairy experts from around the world. the history of research in this area in the coming years is fading away, and so far many studies have been done in this area, but so far not so that this industry is worthy of her attention has not been in the world's hundreds of dairy products eyes eat Unfortunately, in our country in the production of basic dairy products are difficult and modern methods in line with international health standards and unproductive. This is only due to ignoring scientific and experimental issues and maintaining the industrial field is not true. The task of science and education in the current situation of our country is to overcome the problems associated with a very serious and seems to be of decisive importance. We also use these God-given grace of God, we thank the great goods.

**Summary of future Research Plans and Performance of Milk Products : Optimal Use of Potential Milk Production in the Eastern Region of the North**

In 1362 3 / 158 tons of milk supplied to the factory 3 / 15 were associated with Khorasan in 1363 the total share of milk supplied to Khorasan enterprises 3 / 7% per year 1365 of 212 thousand tons of milk consumption 7 / 11% of Khorasan province is allocated. Meanwhile, the total domestic milk production these years were 2617, 2617, 2677 tons was in 71 whole milk figure 4000 tons, among them, unfortunately, only small amounts of the country's dairy industry absorbed remained unchanged years ago, the share of Khorasan Province between was negligible.

The reasons for this problem may be the following:

- Low farm industrial

B - disperse production centers and therefore do not have access to milk collection centers

C - production of traditional dairy products, and unhealthy

High potential problems, depends only on understanding the factors and trying to solve the problem there.

2 - existing research on the optimization of the production process:

Analyze the existing production methods of the problem Dudhai reminder that if you want to cheer for this expression and Rakhcharhai he must find the basic principles, note the following.

- Improving the health of production

B - optimization of existing production hay press

C - automation of production lines and the introduction of new production methods

D - optimization of packaging methods

E - apply engineering methods to improve energy efficiency

I - promotion of health care and technical personnel

3 - the correct use of by-products, the dairy industry:

An important side of the whey product in dairies, Penursazi factories an acute problem in order to solve them.

Taking into account the increasing number of cheese factories, especially in the province of Khorasan, on the pace of production in this article also added that, unfortunately, there is no suitable Astafadhai method it does not matter. Grafted with great force is an important environmental degradation has been. Today, in the developed countries of the world, by providing appropriate technology, whey is produced from various products, such as: lactose and its products, casein, fermented soft drinks, whey protein concentrate, whey powder for use in other industries is cited .

The nutritional value of this precious material and its uses and the problems of its disposal require extensive research on this issue to occur.

4 - research in the field of new products and innovations in the dairy industry:

At present, the dairy industry is the most developed Snighazi in the world that the speed is increasingly developing. Most of these efforts spent on creating new products with different formulations, in various parts of the dairy there are currently hundreds of products

being produced, and in countries with active labor and abundant raw materials, cases of significant product development efforts do not need to set up research centers to work will increase in this area. cheeses, such as dairy products, which today are more than 500 different types in different countries, in world production, which is why Zayqhhay different, different diets, Tnvtby consumers and the nutritional value of each of the products, unfortunately, only in Iran, traditional cheese production has been limited in some cases due to poor environmental conditions and facilities with minimum standards and do not have to comply with modern methods and formulations, suitable conditions and type of milk possibilities.

With a change in dairy products, there may be an answer to many urgent problems, as the industry is in the process of creating a variety of products to attract domestic and foreign markets, to encourage farmers and farmers to produce more, attract more human resources, provide more and improve health and quality dairy products to taste, and we get a lot of diets.

**5 - studies on the use of milk and dairy products in other industries:**

Today, the influence of milk and its by-products in various industries, has been for many years that the development of many food and eye medicines eats. For example, in the following we can cite several cases in Iran, which, unfortunately, turned out to be so far away and not used or the effect of their use on the manufacturers of these products was covered.

1. The use of whey formulas and cereal industry, and the meat of Knowshabazi
2. Extraction of lactose from dairy products (milk, whey) and used in pharmaceutical
3. The use of peripheral dairy food additives industry
4. Casein production and use in various industries

And many other cases that reach this level of technology require research and development and try to establish a research center.

**6 - maintain new quality control systems and improve the quality of dairy products to international standards for export:**

Establish a new quality control system and improve the quality of dairy products in line with international standards to increase exports, the main quality control system already in operation in our country and with the help of any other place among the world industry standards, we do not limit our existing international standards, not only less, but also not accepted by scientific communities. Therefore, significant efforts in this area, use the experience and expertise in the field of new methods and quality control systems are to support the industry in creating change can be quality factors, in line with the principles of hygiene and won.

Export Markets Establishment, these products are also subject to the invention and application of quality control methods clearly and relevant standards, so that we compete in the global market.

**7 - Design and construction of the necessary equipment for the dairy industry:**

for the	years	Production products , with %	Annual increase in revenues , with %	One of the reasons
	2008	nine	8	
	2009	10.2	7	

development of the dairy industry in our country is the time to combine the existing systems and their low efficiency, which sometimes tried to solve this problem by introducing various devices from abroad, however, that this action was successful in eliminating the cross-sectional problem, but also the Home solution will . To prevent foreign ownership and reduce production costs, it is necessary to create internal systems with high efficiency can move to other industries while reducing Engineering Co. is of particular relevance.

#### 8 - direct cooperation with industrial research institutions

According to research institutions at universities and the ability to solve problems related to Pejodohadi industries in this center will be greater than anywhere else. Industries and universities can be in the form of two-way communication 2 with the Institute for Quality and Quantity Improvement to take action to support the centers.

9 - the latest communication and exchange of information with world centers of scientific research:

Obviously, the use of the experience and results of scientific research of scientists and specialists in this field and in other parts of the world's scientific research is the most important factor in the establishment of research centers can help strengthen the links and results of scientific research of the Institute of learned societies and various links to the transfer, with while raising credit centers to understand the countries of our products in other parts of the world are trying to find others.

Explain the purpose and reasons mentioned indicated the clear need to establish a research center in the dairy industry is a strategically important role in the economic self-sufficiency clear and Mabraham .

Bread products production for a decade (2008-2017)

<b>Fruit vegetable research</b> با کمی تأمین بر این نکته گذارد که بخش از موانع و موجود در ریشهای	2010	8.5	6.7	and
	2011	8.8	6.6	group:
	2012	nine	8	مینتوان
	2013	1.1	1.3	صحه
	2014	9.5	7.6	عمدهای
	2015	9.5	7.4	مشکلات
	2016	12	nine	کشور
	2017	10	1.2	اساسی و

بنیادی نداشته و صرفاً نیازمند یک عزم ملی است. Supply may be a little on the subject, etc., which is a significant part of the obstacles and problems in the country, the roots, not just the most basic requires national commitment. Undoubtedly, with the availability of a skilled workforce and the implementation of organization and management is necessary, we can develop a specific, new engine to solve existing problems, make the best use of natural resources and capital, improve product quality, increase labor productivity, reduce waste and many other cases, effective measures .

To achieve these goals, set up fruit and vegetable research teams to attract the elite and make better use of science and agriculture, create work areas, increase scientific knowledge - graduates are applied to determine the needs of fruit and vegetable processing enterprises, their problems and finally , the development of agriculture was proposed.

Definitely planning and development experience in any industry requires research and analysis of investment trends, employment, added to increase exports, and ... Industry. Forms 1 to 10, average yield, average percentage yield (ha) and percentage change in main orchard and agricultural production for the years 1370 to 1378 shows. In addition, in the total total processors - completion in relation to the crop and garden tables 1 and 2 are summarized.

According to the survey conducted showed that among the field crops were wheat, vegetables, sugar beets, garden kitchen products, potatoes, tomatoes and garden products citrus fruits, grapes, apples, dates, pomegranates, pistachios and high production and most highlighted to have damage.

The estimated amount of waste from agricultural products is around 25 to 40 percent, which may result in a lack of adequate investment in research and how these products can be processed. The time behind these defeats is more than \$5 billion a year is estimated. The amount of food waste may be food needs from 15 to 20 million to provide the country's population.

Taking into account the importance of fruit and vegetable processing enterprises as a food strategy in Iran and the world, a fruit and vegetable research group cannot be built as a model for integrating scientific principles and the food production process of the sector of investment strategies and programs to improve production efficiency by waste reduction and introduced it to: Study of infrastructure and potential in the field of extraction and

processing of fruits and vegetables. Evaluation of the production and processing of vegetables and fruits (as for investment, percentage of physical progress of units, employment status, energy, foreign investment and ...) Integration of key indicators and provide industrial development models Zaroftyabi find and develop fruit and vegetable processing companies in the country countries in terms of fruit and vegetable . Analysis of development programs and plans is a key issue in fruit and vegetable processing. If for fruit and vegetable production development programs

**Objectives and necessity :** Agro-industrial development of fruits and vegetables can be a significant impact on the development of agriculture, industry, exports, the economy, employment, and even research and development for. So, support these programs can achieve the following goals.

1. And support scientific research - application and development of the type is planned
2. Recognition, implementation of the processing of vegetables and fruits in Iran and in the world of strategic
3. Evaluation of the characteristics of physical, chemical, microbiological and sensory consumption of fruits and vegetables in various proportions (Taz Khakari or processed form) for optimal production and less waste
4. Increase value-added products and therefore save and agro-industrial development Vegetables and fruits
5. Offering new products and high value-added nutrients
6. To implement scientific methods of knowledge and technology transfer, laboratory for production volumes and semi-industrial development of other specialized fields
7. Establish relevant areas to improve the quality and quantity of fruit and vegetable production and processing based on international standards (TQM, HACCP, ISO 9000) in order to increase exports.
8. There are good domestic and international markets due to the high nutritional value of these products
9. Myopic centers of higher education, research, industry and international organizations ..., UNIDO, WHO, FAO))
10. Creation of integrated research - research and development activities for researchers, industry experts and the elite
11. Optimal use of waste added to increase production through the use of new technologies
12. Participation in the preparation of the field for Sistamasi scientific research - applied to obtain additional communication between universities and industry
13. Balance between supply and demand for various products
14. Applied scientific methods to improve the productivity and food industry development strategy based on industrial countries

15. Encourage outcomes in a variety of ways, including workshops, publication of books and articles, and media groups
16. Determine the role of scientific and empirical data banks in industrial development planning

#### **Valuation of agricultural products**

Khorasan province with an area of more than 310,000 kilometers, about 20 percent of this vast country-based. Penovtrian province can be considered. Its population is about 6 million people, almost 10 percent of the population in its place. The scale and status of the province's weather, a variety of agricultural products caused in such a way that the amount of basic agricultural products than 7 million tons.

Burberry and Khorasan saffron has been an exclusive product, in the process of planning, harvesting and packaging, the export of these products will bring prosperity. According to the Ahadshavrazi Ministry of Statistics , saffron level of 77-79 in about 30,000 hectares of agricultural land were the field last year, about 140 tons of saffron quality packaging is now an average of 850 dollars, the currency from exports of 100 tons of saffron 85 million dollars will be. Cereals, vegetables and garden kitchen products, in particular tomatoes and potatoes and other crops are the only province that are effective in supplying domestic needs and exports gives play.

Province garden products in more than 1 million tons of domestic consumption, showed that in addition to a large part of the food industry raw materials and formed a process that can be raw materials or export to other countries.

Khorasan Province Industrial Services with the number of 2206 units and active 2987 plan in hand, the advantages of a relatively new phenomenon in various areas of the province, provide that in addition to desirable economic areas such as employment, about 70,000 active units and forecast to create 92,000 new jobs to provide It has. The number of food units and the capacity of each province separately garden crops in tables 1 and 2 were.

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