



Uzbek State Joint Stock
Concern of Pharmaceutical
Industry "UZPHARMSANOAT"



Uzbekistan

INVESTMENT GUIDE TO THE PHARMACEUTICAL INDUSTRY UZBEKISTAN



2013



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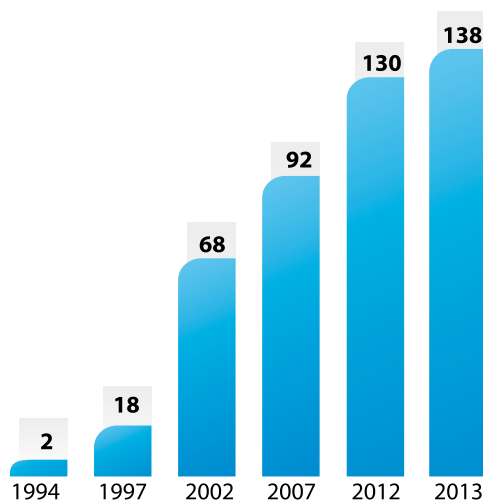


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**Dynamics of the number
of the pharmaceutical companies**



The “UZFARMSANOAT” Concern was established in 1993 by the Decree of the President of the Republic of Uzbekistan with the purpose to coordinate the activities of enterprises and organizations producing medications and bio-preparations, to ensure further development of the pharmaceutical industry and to better serve the population’s needs in medicaments. The Concern then included two entities – a pharmaceutical factory “UZKHIMFARM” and a scientific production association (SPA) “VACCINE”. The latter comprised of the Tashkent Research Institute of Vaccines and Serums, an enterprise for production of antibacterial and antivirus medications, the Uzbek Research Institute of Chemistry, Physics and Catalysis (now renamed into the Uzbek Research Institute of Chemistry and Pharmaceutics), and a branch of the oriental medicine institute in Samarqand.

The main goals and objectives of the Concern were set as follows:

- to organize development and production of medications, to implement measures on serving the needs of the population and the health care institutions in the medications, bio-preparations and other medical and sanitary and hygienic products;
- to interact with the national and local state authorities on the issues of the pharmaceutical industry complex development, improvement of the territorial dislocation of the pharmaceutical companies, as well as of the environmental policy issues;
- to implement, together with the Ministry of Health and other ministries and agencies concerned, a unified scientific and technical policy in the field of medications development and technologies for their production;
- to develop and implement consistently the programme on medications import reduction by increasing domestic production, improving and expanding scientific, technical and economic cooperation with foreign partners.

By the time the Concern was founded the pharmaceutical industry owned an outdated material and technical base and produced a narrow range and limited volumes of medications. The nomenclature of the medicines produced included mainly the generics of the limited spectrum and outdated preparations.

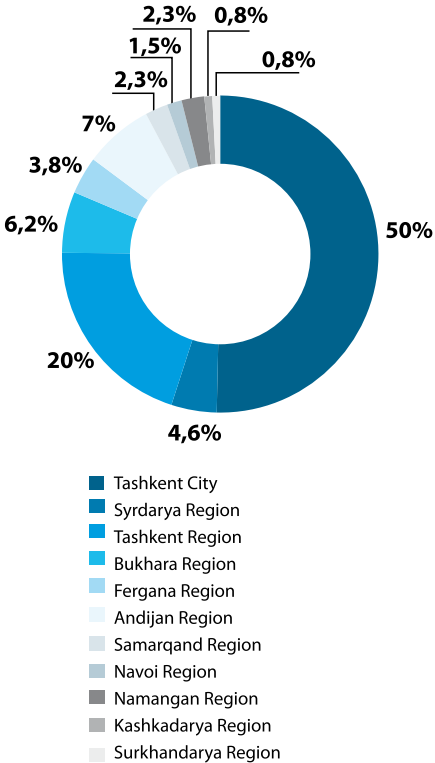
Within a short period of time the national government has developed an efficient legislative and regulatory framework for production and provision of the population and health care institutions with the medications demanded. The Government has adopted a number of decrees and resolutions that provided preferential treatment and tax breaks for the companies in the pharmaceutical industry and established an enabling environment for attracting foreign investments into the sector.

A developed economic infrastructure built as a result of the measures taken united the manufacturers of medications and medical products and the research institutes. The investments in the pharmaceutical industry reached over USD 200 mln., including over USD 50 mln. of direct foreign investments. Over 130 companies manufacturing demanded modern medications and medical products were established.

Most of these companies (70%) operate in Tashkent and the Tashkent region. The

Today the pharmaceutical companies produce over 30 product items, such as injections, infusions, tablets, capsules, ointments, medical products, apothecary vessels etc. The nomenclature of the produced medicines has increased 14-fold reaching 1,127 medicines and 113 medical products.

Dislocation of the pharmaceutical companies with breakdown by region



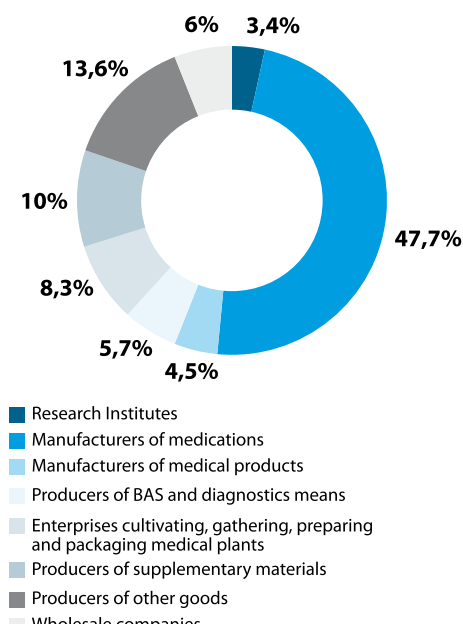
THE STATE OWNED JOINT STOCK CONCERN “UZFARMSANOAT”

The State Joint Stock Concern “UZFARMSANOAT” is the leading association of the pharmaceutical enterprises.

The Concern unites 85 enterprises and organizations, including 3 research institutes, 37 manufacturers of medications and medical products, and 5 producers of biologically active supplements (BAS) and diagnostics means. 23 enterprises are engaged in production of supplementary materials and other products; 8 companies operate in the field of cultivation, gathering, preparation and packaging of medical plants; 9 companies are occupied in wholesale and raw materials and other resources supply to the pharmaceutical companies.

Research studies in the field of development of new medications is carried out by 8 specialized research institutes - the Tashkent Institute of Vaccines and Serums, the Uzbek Research Institute of Chemistry and Pharmaceutics, the Oriental Medicine Research Institute, the SPA«VACCINE», the Institute of Chemistry of Plant Substances, the Institute of Bioorganic Chemistry, the Institute of Polymer Chemistry and Physics, and the SPA«BOTANICA». The latter 5 institutes belong to the Academy of Sciences. There are over 797 specialists working in the research institutes, including 75 doctors of philosophy and 207 candidates of science. Annually over 200 pharmacists and specialists in the field of pharmaceutical industry graduate from the Tashkent Pharmaceutical Institute. There are medication and pharmaceutical industry departments under 51 medical colleges that annually provide over 4000 mid-level specialists.

**Enterprises and Institutions included
in the Structure of the SJSC “UZFARMSANOAT”**
(as of 01.01.2013)



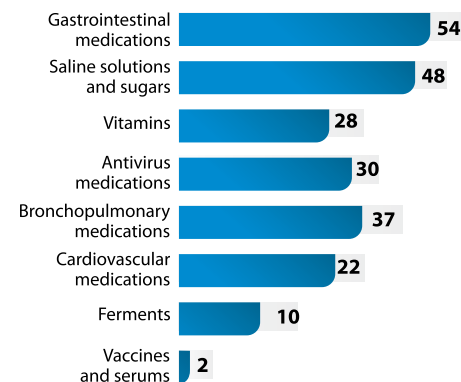
1. THE PRIMARY OBJECTIVES OF THE NATIONAL PHARMACEUTICAL INDUSTRY

Further development of the pharmaceutical industry requires additional incentives and favorable conditions for expanding the national production of medications and reducing the import of similar preparations. The main objectives for the nearest perspective are set as follows:

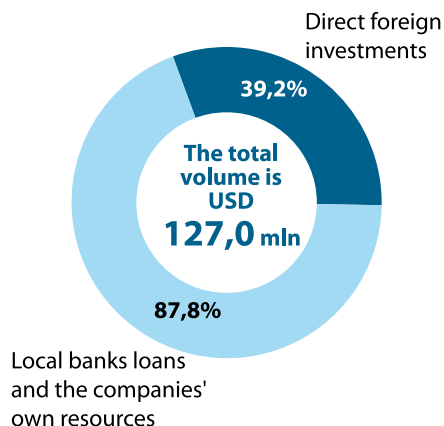
1. Implementation of technological re-equipment of the pharmaceutical industry of the Republic of Uzbekistan and organization of production of a wide range of generic and innovative medicines;
2. Establishment of new pharmaceutical enterprises in the regions, including by means of attracting foreign investments;
3. Protection of the domestic market from unfair competition and alignment of the market access conditions for domestic and foreign producers;
4. Improving the quality assurance system of medicines and elimination of the excessive administrative barriers on the way to registration of domestic medicines;
5. Professional trainings for the specialists in the field of development and production of pharmaceutical products in accordance with the international standards.

One of the main priorities set by the Government of the Republic of Uzbekistan is implementation of measures aimed at universal modernization and further development of the health care system, which is the biggest consumer of medications and medical products. Development and improvement of the health care service demands a fuller market saturation with a wide range of quality medications, primarily of those produced domestically. This requires investments in organization of production of medications and medical products. The growing

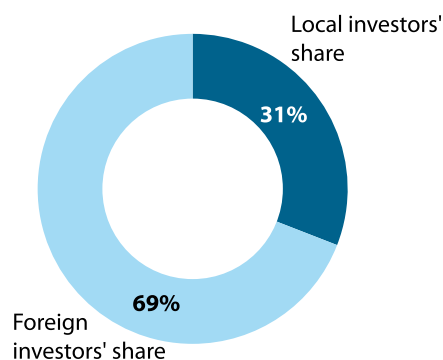
Meeting the needs of the health care system and the population in the medications of domestic production with breakdown by specific pharmacotherapeutic groups (%)



Investments in the SJSC "UZFARMSANOAT" (2007-2012)



The capital structure of the pharmaceutical companies (% , as of 01.10.2012)



demand for medications ensures the perspectives of the pharmaceutical industry development and the sector as a whole.

The analysis of provision of the health care institutions and the country's population with the domestically produced medicines in the context of some pharmacotherapeutic groups shows that only about 50% of the current demand is covered. Accordingly, in order to meet the demand the medications have to be imported. This leads to an outflow of hard currency and encourages foreign manufacturers. Investing in domestic production will help saturate the domestic market with cheaper domestic products, create new jobs, develop the production infrastructure and ensure additional revenues to the state budget.

Therefore, the republic needs to attract investments in order to establish new enterprises that will produce medications and medical products.

The priority directions for developing the medications production are identified based on the population morbidity structure. According to the Ministry of Health, circulatory, respiratory and digestive systems diseases are currently predominant.

In order to stimulate the organization of domestic medications production the Government has granted a number of preferences and tax and customs privileges.

The pharmaceutical industry has been provided with additional privileges: VAT exemption for finished goods and raw materials, and customs duties and property tax exemptions for the technological equipment imported by the enterprises for production purposes.

The established favorable conditions made possible to attract to the pharmaceutical industry over USD 120.0 mln. of investments, including USD 39.0 mln. of direct foreign investments. Today the share of foreign partners in the capital structure of the pharmaceutical companies comprises 31%, and the share of local partners is 69%.

The Uzbek manufacturers of medications successfully cooperate with the leading companies from Germany, Russia, Turkey, India, China, South Korea, Poland, Bulgaria, Czech Republic and other countries.

The pharmaceutical industry of the republic is attractive for the foreign investors because of a significant market and a simplified mechanism for export of the domestic products to the neighboring countries.

In 2012 the Concern worked on the issues of the potential cooperation with the pharmaceutical companies from Bulgaria, Czech Republic, Poland, Korea, China and some other countries. The potential investors from these countries received proposals to organize joint ventures for production of the most important medication lines: vaccines and serums, diabetes medications, medicines for neuropsychiatric and cardiovascular diseases, and hepatoprotectors.

The cooperation assumes the joint implementation of investment projects on establishment of new enterprises from scratch. As a result of the active work with a number of foreign companies a few investment agreements and agreements on project implementation in 2014-2016 were signed.

Key areas of cooperation offered to foreign investors



Bronchial asthma medications



Iodine-containing medications



Gastrointestinal medications



Hepatoprotectors



Vitamins and preparations for kids



Vaccines and serums



Diabetes medications



Medications for treatment of neuropsychiatric disorders



Cardiovascular medications



Diagnostics means

2. THE RESULTS OF THE INVESTMENT ACTIVITIES OF THE SJSC “UZFARMSANOAT” IN 2011-2012 AND PERSPECTIVES UNTIL 2015

2011

The State Programme “On priorities of the industrial development of the Republic of Uzbekistan for 2011-2015” approved by the Resolution of the President of the Republic of Uzbekistan № PP-1442 dd. December 15, 2010 envisages implementation of 57 investments projects in the field of pharmaceutical industry development. 33 out of these investment projects have their investors, sources of financing, and implementing entities identified, and their network schedules are being observed. The total project costs are USD 390.4 mln.. 24 projects are in the process of searching for investors, working out the financing sources, and identifying the implementing entities.

There were 15 investment projects to be implemented in 2011. The total project investment costs to be realized in 2011 via all types of financing sources comprised USD 34.68 mln.. Within 2011 the works implemented amounted USD 37.57 mln., which comprised 108.3% against the period’s forecast.

- the JV«EKOPLAST SYSTEMS» –Organization of production of medical disposable syringes and needles (Tashkent city);
- the FE LLC«NOBEL PHARMSANOAT» –Organization of production of ready-made medications (tablets, capsules) (Tashkent city);
- the PSPE«RADIKS» – Organization of production of tablet, herbal and ointment preparations (Tashkent city);
- the JV LLC«SALUBRIS VITA»–Organization of production of capsule probiotics from microbial associations of the Central Asian region based on the GMP standard (Tashkent region);

- the JV«ALBI-PHARMA» –Organization of production of vitamins, antibiotics and substances (Tashkent city);
- the PE«DENTAFILL PLUS» –Organization of production of laminate composite tubes for ointments (Tashkent region);
- the PE«DENTAFILL PLUS» –Organization of production of suspensions, sterile powder antibiotics, and suspension-coated tablets (Tashkent region);
- the PE«DENTAFILL PLUS» –Organization of production of sterile ampule, infusion and eye medications (Tashkent region);
- the JV«ULTRA HEALTH CARE» –Establishment of a new pharmaceutical production of medications in tablet and liquid forms (Tashkent region);
- the LLC«TEMURBEK MED PHARM» – Production of infusion solutions (Syrdarya region);
- the JV LLC«NOVA PHARM» –Organization of production of tablet and capsule medications, ointments and herbal preparations (Surkhandarya region);
- the PSPE«RADIKS» –Organization of production of empty ampules (Tashkent city);
- the JV LLS«REMEDY GROUP» – Expansion of production of ointments and liniments (Tashkent city);
- the PE«NASA» – Installation of additional equipment for production of polyethylene bottles (Tashkent city);

Realization of the Investment Programme for 2011

(in accordance with the PP-1442 "On the priorities of the industrial development of the Republic of Uzbekistan for 2011-2015")

| Source of Financing | Investment Realization Forecast | Actual Investments in 2011 (in equivalent to mln. USD) | |
|--------------------------|---------------------------------|--|---------------------------|
| | | Actual | % in relation to forecast |
| TOTAL BY INDUSTRY | 34,68 | 37,57 | 108,30 |
| Own Resources | 6,62 | 5,67 | 85,60 |
| Foreign Investments | 18,9 | 25,30 | 133,90 |
| Bank Loans | 9,16 | 6,60 | 72,10 |

- the JV«JURABEK LABORATORIES» – Installation of additional equipment in the tablet workshop (Tashkent region).
- Realization in 2011 of the investment projects included in the Annex № 8 to the Resolution of the President of the Republic of Uzbekistan № PP-1455 dd. 29.12.2010 “On the Investment Programme of the Republic of Uzbekistan” comprised USD 41.25 mln. (102.7% in relation to the forecast). The project list is given below.
- the FELLC«CODEPHARM»– Organization of production of ready-made medications in Syrdarya region (I stage).
- the JV«EKOPLAST SYSTEMS» – Organization of production of medical single-use syringes and needles (Tashkent city).
- the PSPE«RADIKS» – Organization of production of tablet, herbal and ointment preparations (Tashkent city).
- the JV LLC«ASIA TRADE» – Organization of sterile medical single-use products (Tashkent region).
- the LLC«INTEGRA DD» – Production of ampule medications for injections (Samarqand city).
- the LLC«BAXTTEKS-FARM» – Organization of production of assorted dressing materials (Syrdarya region).

Realization of the Investment Programme for 2011

(in accordance with the PP-1445 “On the Investment Programme for 2011”)

| Source of Financing | Investment Realization Forecast | Actual Investments in 2011 (in equivalent to mln. USD) | |
|--------------------------|---------------------------------|--|---------------------------|
| | | Actual | % in relation to forecast |
| TOTAL BY INDUSTRY | 40,18 | 41,25 | 102,7 |
| Own Resources | 5,92 | 6,07 | 102,6 |
| Foreign Investments | 22,65 | 27,54 | 121,6 |
| Bank Loans | 11,61 | 7,64 | 65,8 |

- the LLC "LAXISAM" – Organization of production of ready-made medications in tablet, capsule and ampule forms (Tashkent city).
- the JV LLC "MERRYMED FARM" – Organization of production of ready-made medications (tablet, capsules, herbal preparations) (Namangan region).

2012

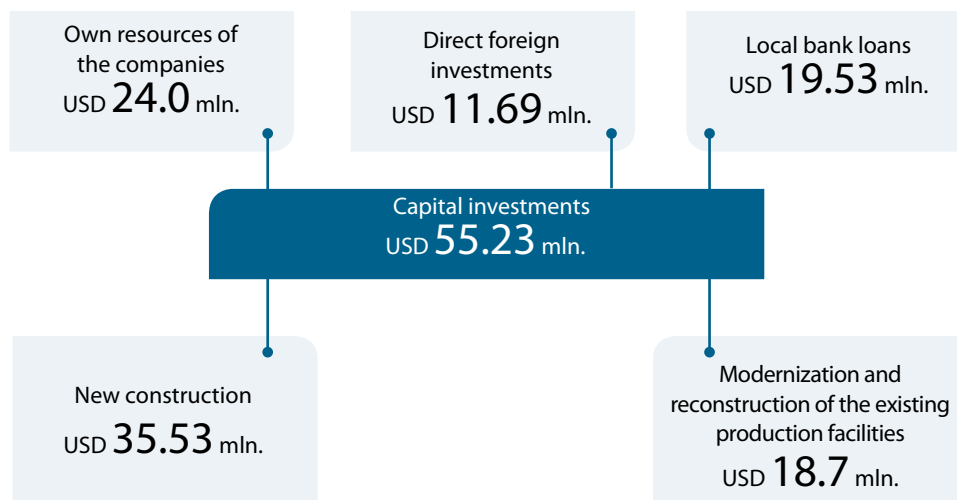
In 2012 the enterprises of the Concern have been implementing 25 investment projects included in the Annex № 9 to the Resolution of the President of the Republic of Uzbekistan № PP-1668 dd. 27.12.2011 "On the Investment Programme of the Republic of Uzbekistan for 2012". The amount of the investments realized in 2012 comprised USD 55.23 mln. (100.1% in relation to the forecast).

Realization of the Investment Programme for 2012

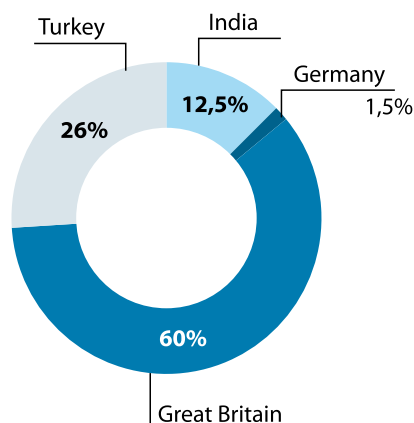
(in accordance with the PP-1668 dd. 27.12.2011 "On the Investment Programme of the Republic of Uzbekistan for 2012")

| Source of Financing | Investment Realization Forecast | Actual Investments in 2012 in equivalent to mln. USD | |
|--------------------------|---------------------------------|--|---------------------------|
| | | Actual | % in relation to forecast |
| TOTAL BY INDUSTRY | 55,17 | 55,23 | 100,1 |
| Own Resources | 20,33 | 24,01 | 114,7 |
| Foreign Investments | 11,42 | 11,69 | 102,4 |
| Bank Loans | 22,82 | 19,53 | 85,6 |

The Structure of Investments in Modernization, Technical and Technological Re-Equipment of the Pharmaceutical Enterprises in 2012



Structure of direct foreign investments in development of the pharmaceutical industry in 2012

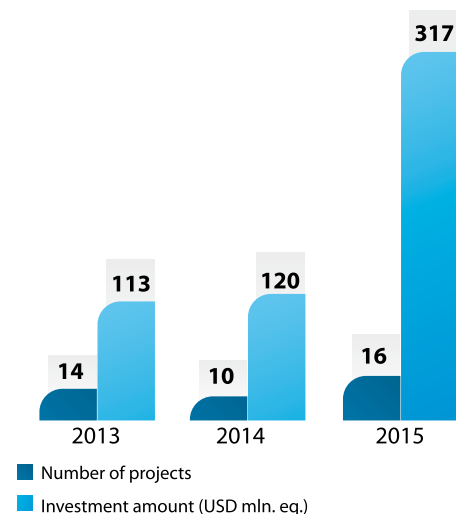


The Investment Projects of the SJSC "UZFARMSANOAT" companies being implemented in 2012:

- the FE LLC «NOBEL PHARMSANOAT» – Organization of production of ready-made medications (tablets, capsules) (Tashkent City).
- the JV LLC «NOVA PHARM» – Organization of production of tablet and capsule medications, ointments and herbal preparations (Surkhandarya region).
- the JV LLC «SALUBRIS VITA» – Organization of production of capsule probiotics from microbial associations of the Central Asian region based on the GMP standard (Tashkent region).
- the «BRAVO PHARMACEUTICALS» (India) – Organization of production of hormone preparations in the SIEZ «NAVOI».
- the PSPE «RADIKS» – Organization of production of tablet, herbal and ointment preparations (Tashkent city).

- the PE «DENTAFILL PLUS» – Organization of production of laminate composite tubes for ointments (Tashkent region).
- the PE «DENTAFILL PLUS» – Organization of production of suspensions, sterile powder antibiotics, and suspension-coated tablets (Tashkent region).
- the PE «DENTAFILL PLUS» – Organization of production of sterile and unsterile latex gloves (Tashkent region).
- the PE «DENTAFILL PLUS» – Organization of production of sterile ampule, infusion and eye medications (Tashkent region).
- the JV «ALBI-PHARMA» – Organization of production of vitamins, antibiotics and substances (Tashkent city).
- the LLC "LAXISAM" – Organization of production of ready-made medications in tablet, capsule and ampule forms (Tashkent city).
- the FE LLC«ARMENIA» –Organization of production of throat lozenges (Tashkent region).
- the JV LLC«JURABEK LABORATORIES» – Expansion of production of infusion solutions in polypropylene bottles (Tashkent region).
- the JV LLC«REKA-MED-FARM» – Organization of production of infusion solutions (Syrdarya region).
- the JV LLC «ASIA TRADE» – Production expansion (Tashkent region).
- the PE«NASA» – Installationof equipment for production of plastic bottles for baby food (Tashkent city).
- the Institute of Chemistry of Plant Substances (ICPS) – Modernization and reconstruction of experimental production of substances of plant origin.
- the DPE «NIKA PHARM» – Expansion of production of medications in tablet and capsule forms (Tashkent city).
- the LLC «BAXTTEKS-FARM» – Organization of production of assorted dressing materials (Syrdarya region).
- the SE«SAMO» – Modernization and technical re-equipment of the pharmaceutical production facilities (Tashkent city).
- the LLC«GALEN MED PHARM» – Production of polymer bottles and herbal preparations (Tashkent city).

Dynamics of investments in development of the pharmaceutical industry in 2013-2015



- the PE«SHARQ DARMON» –Organization of production of medications in hard and soft forms (Tashkent city).
- the LLC «INTEGRA DD» – Production of ampule medications for injections (Samarqand city).
- the JV«UZGERSOV» – Organizationof production of antibacterial cosmetics products (Kashkadarya region).
- the JV«ULTRA HEALTH CARE» – Expansion of production of sterile powder antibiotics (Tashkent region).

In **2013-2015** the enterprises within the SJSC “UZFARMSANOAT” will implement 40 new investment projects for the total amount of USD 550.0 mln.. The investment structure is as follows: own resources of the companies – USD 47.7 mln., commercial bank loans – USD 213.3 mln., foreign investments – USD 278.9 mln., resources of the Reconstruction and Development Fund – USD 10.0 mln. As a result of implementation of these projects over 1400 new jobs will be created in the regions.

The List of the Investment Projects Being Implemented by the SJSC "UZFARMSANOAT" in 2013

| № | Company Name | Project Name | Project Capacity | Total Project Amount (USD mln. eq.) |
|---------------|--|--|-----------------------------------|--|
| TOTAL: | | | | 157.21 |
| 1 | PE «DENTAFILL PLUS» | Organization of production of sterile ampule, infusion and eye medications (Tashkent region) | 36.0 mln.bottles | 12.30 |
| 2 | JV LLC «UZGERMEDPHARM» | Organization of production of ampule and injection medications (Tashkent region) | 13.75 mln.ampules | 3,11 |
| 3 | OJSC «UZBIOPHARM» | Organization of production of injection solutions (Tashkent city) | 5 mln.packs | 5,40 |
| 4 | LLC «GLICTRIZA GLABRA» | Organization of deep processing of licorice (Sergeli district, Tashkent city) | 2 thousandtons | 15,00 |
| 5 | FE «BRAVO PHARMACEUTICALS» | Organization of production of ready-made medications (capsules, tablets, ointments, syrups) (SIEZ "NAVOI") | 20 mln. conventional units (c.u.) | 5,50 |
| 6 | LLC «LAXISAM» | Organization of production of ready-made infusion solutions (Tashkent city) | 3 mln.c.u. | 3,90 |
| 7 | FE LLC «NOBEL PHARMSANOAT» | Organization of production of ready-made medications (tablets, capsules) (Tashkent City) | 1.96 mln.packs | 10,00 |
| 8 | LLC «FAZO-LUXE» | Production of medical wadding, gauze, bandages etc. (Tashkent region) | 3.63 thousandtons | 3,00 |
| 9 | LLC «BAXTTEKS-FARM» | Organization of production of yarn for assorted dressings (Syrdarya region) | 1320.0 tonsof yarn | 7,00 |
| 10 | JSPA «UZMETCOMBINAT | Organization of production of medications in hard form | 5 mln. c.u. | 5,00 |
| 11 | LLC «MEDSTANDARDGLASS» | Organization of production of ampules and bottles of full cycle | 2.4 thousandtons | 4,50 |
| 12 | JV LLC «SALUBRIS VITA» | Organization of production of capsule probiotics from microbial associations of the Central Asian region based on the GMP standard (Tashkent region) | 6.0 mln.capsule forms | 21,00 |
| 13 | JV «ALBI-PHARMA» | Organization of production of vitamins, antibiotics and substances (Tashkent city) | 10.0 mln.c.u. | 8,00 |
| 14 | JV LLC «JURABEK LABORATORIES» | Expansion of production of infusion solutions in polypropylene bottles (Tashkent region) | 21.0 mln.c.u. | 17,75 |
| 15 | JV LLC «JURABEK LABORATORIES» | Modernization of the acting tablet workshop (Tashkent region) | 1.0 mln. c.u. | 1,50 |
| 16 | OJSC «UZKHIMFARM» | Reconstruction of the acting tablet workshop (Tashkent city) | 60.0 mln.c.u. | 2,50 |
| 17 | INSTITUTE OF CHEMISTRY OF PLANT SUBSTANCES | Modernization and reconstruction of the experimental facilities for creation, development, and production of the original plant substances and the most demanded generics in accordance with theGMP standard | 9 tons | 5,00 |

The List of the Investment Projects to Be Implemented by the SJSC “UZFARMSANOAT” in 2014

| Nº | Project Name | Project Capacity | Total Project Amount (USD mln. eq.) |
|---------------|---|---|-------------------------------------|
| Total: | | | 192,09 |
| 1 | Organization of production of injection and infusion medication in accordance with the GMP standard | 170.0 mln. c.u. | 7,9 |
| 2 | Organization of production of medications in the form of soft gelatin capsules, hard tablets and hard gelatin capsules | 31.3 mln. c.u. | 1,23 |
| 3 | Organization of production of sterile ampule, infusion and eye medications | 36.0 mln. bottles | 13,50 |
| 4 | Organization of production of infusion medications | 2.0 mln. bottles | 2,00 |
| 5 | Organization of production of infusion solutions, suspensions and sterile powder antibiotics | 12.0 mln. powder packs 8.5 mln. pcs. packs | 4,00 |
| 6 | Expansion of production of infusion solutions | 6.0 mln. pcs. | 2,30 |
| 7 | Organization of production of infusion solutions | 12.0 mln. pcs. | 8,50 |
| 8 | Organization and modernization of production of medical, food and household glassware | 280.0 mln. pcs. | 28,27 |
| 9 | Organization of production of empty ampules for injection solutions | 120.0 mln. ampules | 5,00 |
| 10 | Organization of production of medical wadding and cotton cellulose at the facilities of “Angren Cotton” | 2.0 thousand tons | 1,80 |
| 11 | Organization of production of active pharmaceutical ingredients (glycine acid) | 6.0 thousand tons | 6,00 |
| 12 | Organization of production of single-use tests (pregnancy tests, alcohol tests, drug tests etc.) | 5.0 mln. c.u. | 4,50 |
| 13 | Organization of medical plant cultivation and production of substances (vegetable oils, extracts) | 100.0 tons | 1,20 |
| 14 | Organization of production of tablet medications for treatment of cardiovascular diseases, including those mildronate-based | 2.0 mln. packs | 4,00 |
| 15 | Organization of production of non-woven spandbond fabrics | 30 mln. sq. meters | 1,40 |

| Nº | Project Name | Project Capacity | Total Project Amount (USD mln. eq.) |
|----|---|---------------------|-------------------------------------|
| 16 | Organization of production of disposable products from non-woven fabrics (shoe covers, masks, caps, gowns, sheets, etc.) | 10.0 mln. pcs. | 1,20 |
| 17 | Organization of production of pharmaceutical ingredients (glucose, fructose etc.) | 2.0 thousand tons | 4,50 |
| 18 | Organization of production of medications for treatment of respiratory diseases in the liquid (syrups, tinctures) and spray forms | 2 mln. dosages | 6,00 |
| 19 | Organization of deep processing of licorice | 2 thousandtons | 15,00 |
| 20 | Organization of production of absolute (anhydrous) ethanol for the pharmaceutical industry | 5 mln. liters | 10,00 |
| 21 | Organization of production of ready-made medications (tablets, capsules, ointments, syrups) | 20 mln. c.u. | 5,50 |
| 22 | Organization of production of ready-made infusion solutions | 3 mln. c.u. | 3,90 |
| 23 | Organization of production of ready-made medications (tablets, capsules) | 1.96 mln. packs | 11,50 |
| 24 | Production of medical wadding, gauze, bandages | 3.63 thousandtons | 3,00 |
| 25 | Organization of yarn production for assorted dressings | 1320.0 tons of yarn | 7,00 |
| 26 | Organization of production of medications in hard form | 5 mln. c.u. | 5,00 |
| 27 | Organization of production of infusion solutions | 5.0 mln. pcs. | 6,5 |
| 28 | Expansion of production of infusion solutions in polypropylene bottles | 21.0 mln. c.u. | 17,75 |
| 29 | Expansion of production of sterile powder antibiotics | 9.0 mln. pcs. | 3,64 |

The List of the Investment Projects to Be Implemented by the SJSC “UZFARMSANOAT” in 2015

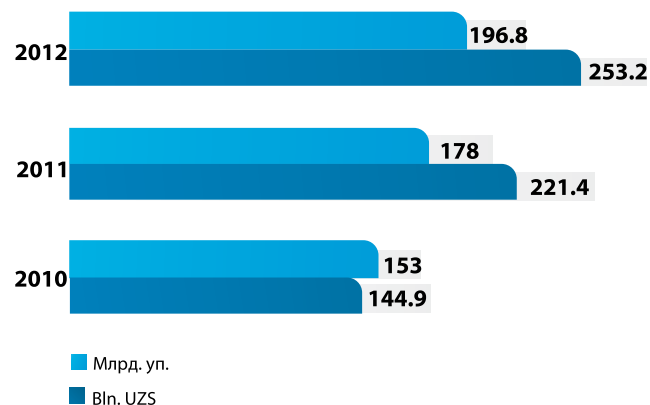
| Nº | Project Name | Project Capacity | Total Project Amount (USD mln. eq.) |
|---------------|---|---|--|
| Total: | | | 118,57 |
| 1 | Organization of production of poly-vitamins | 6.5 mln. c.u. | 7,5 |
| 2 | Organization of production of antiretroviral medications in tablet and capsule forms | 5 mln. c.u. | 5,0 |
| 3 | Organization of production of psychotropic medications in hard form and injections | 5 mln. c.u. | 10,0 |
| 4 | Organization of production of injection and infusion medications in accordance with the GMP standard | 170.0 mln. c.u. | 7,9 |
| 5 | Organization of production of infusion solutions, suspensions and sterile powder antibiotics for preparation of injection solutions | 12.0 mln. powder packs 8.5 mln. pcs. packs | 4,00 |
| 6 | Organization of production of infusion solutions | 12.0 mln. pcs. | 8,50 |
| 7 | Organization and modernization of production of medical, food and household glassware | 280.0 mln. pcs. | 28,27 |
| 8 | Organization of production of empty ampules for injection solutions | 120.0 mln. ampules | 5,00 |
| 9 | Organization of production of active pharmaceutical ingredients (glycine acid) | 6.0 thousand tons | 6,00 |
| 10 | Organization of production of single-use tests (pregnancy tests, alcohol tests, drug tests etc.) | 5.0 mln. c.u. | 4,50 |
| 11 | Organization of medical plant cultivation and production of substances (vegetable oils, extracts) | 100.0 tons | 1,20 |
| 12 | Organization of production of tablet medications for treatment of cardiovascular diseases, including those mildronate-based | 2.0 mln. packs | 4,00 |
| 13 | Organization of production of disposable products from non-woven fabrics (shoe covers, masks, caps, gowns, sheets, etc.) | 10.0 mln. pcs. | 1,20 |
| 14 | Organization of production of pharmaceutical ingredients (glucose, fructose etc.) | 2.0 thousand tons | 4,50 |
| 15 | Organization of production of medications for treatment of respiratory diseases in the liquid (syrups, tinctures) and spray forms | 2 mln. dosages | 6,00 |
| 16 | Organization of deep processing of licorice | 2 thousandtons | 15,00 |

3. THE MAIN PRODUCTION ACTIVITY INDICATORS OF THE SJSC "UZFARMSANOAT"

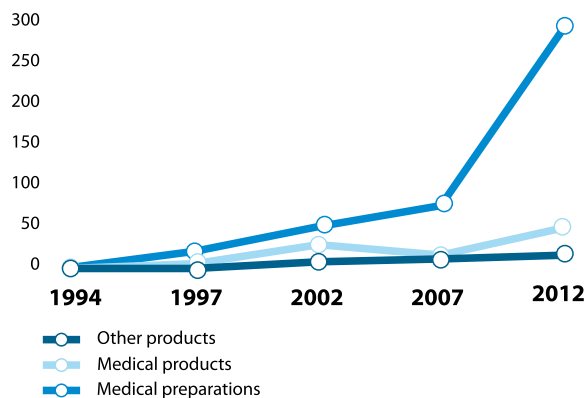
76% of Uzbekistan-made pharmaceutical products are manufactured by the enterprises within the structure of the SJSC "UZFARMSANOAT" (in-kind value). The monetary amount of the products made and sold by the enterprises of the SJSC "UZFARMSANOAT" is 82%. The plan is to increase this indicator to reach 90% by 2015.

During 9 months of 2013 the companies of the SJSC "UZFARMSANOAT" have reached significantly better production activity indicators comparing to the similar period of the last year. The industrial production volume has increased by 23.3%, in-kind

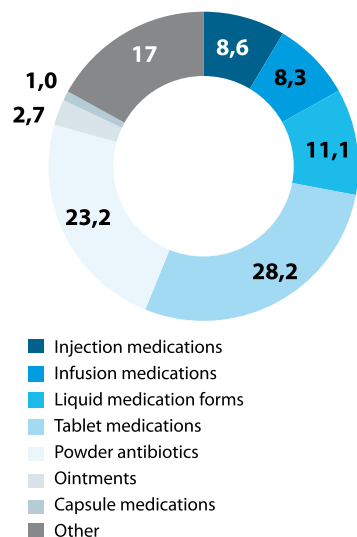
Increase in production of medications manufactured by the enterprises of the SJSC "UZFARMSANOAT" in 2010-2012



The main development indicators of medication production in 1994-2012 (in bln. UZS)



The medications production structure of the enterprises of the SJSC “UZFARMSANOAT” in 2012 (mln. packs)



production has increased by 28.1%, and export has increased by 2.3 times. 31 new preparations belonging to 42 positions and 18 pharmacotherapeutic groups were put in production in the current year (against 32 of planned ones). 21 enterprises hold the ISO-9001 certificates. The use of production facilities has increased and reached 71.7%, the number of employees has increased by 1050 people. 491 new jobs were created, which comprises 130.7% in relation to the forecast.

The production volume for 9 months of 2013 is UZS 301.4 bln. (growth index is 123.3%). The production volume consists of medications (produced for the amount of UZS 224.9 bln. (growth index is 111.7%), medical products (produced for the amount of UZS 61.6 bln. (growth index is 203.2%), supplementary materials (produced for the amount of UZS 8.2 bln.) (growth index is 142.1%) and other products (produced for the amount of UZS 6.7 bln.) (growth index is 123.3%).

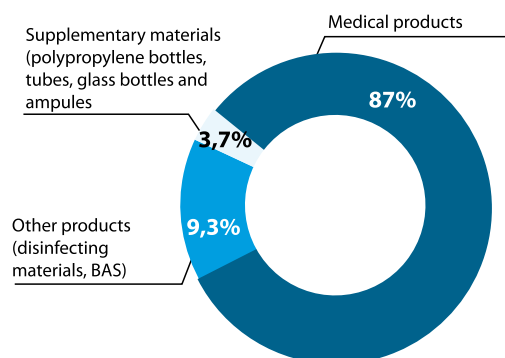
The SJSC “UZFARMSANOAT” companies have increased the production of medications 15-fold during the last decade (from UZS 16.8 to 253.2 bln.), and for the period from 1994 this figure has increased almost 540-fold (from UZS 47.2 to 253.2 bln.).

The medications production structure within the companies of the SJSC “UZFARMSANOAT” in 2012 was as follows: medications in tablet form – 28.2%, powder antibiotics – 23.2%, and medications in liquid form – 11.1%.

87.0% of the volume of other products is presented by disposable syringes and infusion systems.

The share of products manufactured by the companies certified for compliance with the international quality standard has increased from 49.7 to 75.5% during the last 3 years.

Structure of the medical products and other products manufactured by the enterprises of the SJSC “UZFARMSANOAT” in 2012 (mln. pcs.)



4. ENSURANCE OF THE QUALITY CONTROL SYSTEM OF THE PREPARATIONS PRODUCED

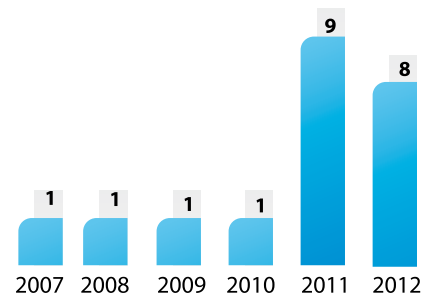
Standardization, metrology and certification are the key elements of the medications and medical products quality management system. Therefore, since the very beginning of operation the pharmaceutical products quality control was organized at a high level at all enterprises engaged in the pharmaceutical business. The Main Department for Quality Control of Medicines and Medical Equipment under the Ministry of Health is assessing the quality of the medications, both newly developed and those being manufactured, with the consequent mandatory certification of each production series or shipment.

As of today 21 companies within the SJSC "UZFARMSANOAT" structure hold the ISO-9001 quality management certificates: JV "NOVOPHARMA PLUS", DPE "NIKA PHARM", PSPE "RADIKS", PE "NASA", JV "JURABEK LABORATORIES", PE "DENTAFILL PLUS", PE "ZAMONA RANO", JV "REMEDY", JV "REMEDY GROUP", JV "UZGERMED PHARM", JV LLC "SAM-SUN-TASHKENT-PHARM", JV "GUFIK-AVICENNA", JV LLC "ASIA TRADE", JV LLC "REKA-MED FARM", SE "SAMO", LLC "ELASTIKUM", JV LLC "MERRYMED FARM", LLC "GALENKA", LLC "MAKROFARM-OPTIMA", FE "NOBEL PHARMSANOAT", PE "IMMUNOMED". JV "NOVOPHARMA PLUS", JV "REMEDY GROUP" and JV "JURABEK LABORATORIES" possess international GMP certificates, and the DPE "NIKA PHARM" was awarded with the national GMP certificate.

Currently 5 companies within the Concern structure are working on implementation of the ISO-9001 quality management standards: JV LLC "ECOPLAST SYSTEMS", LLC "INVEST MED PHARM PLUS", OJSC "UZKHIMFARM", JV "NOVA PHARMA" and LLC "ARMENIA".

5 pharmaceutical companies outside the Concern structure have ISO-9001 certificates: PE "PHARMED SANOAT", JV "BARAKAT ALFA", JV "LE UAT DE BUKHARA", the Institute

Implementation of the International Quality Standards ISO-9001 at the enterprises of the SJSC "UZFARMSANOAT"





Sterile cephalosporin antibiotics production workshop, JV "JURABEK LABORATORIES"

of Nuclear Physics "RADIOPREPARAT" and LLC "CHASHMA"; and the PE "PHARMED SANOAT" has also the GMP certificate.

The analysis of operations of the companies that have implemented the quality management systems demonstrates significant advantages: increase in production volumes, export volumes and net earnings. The companies' financial positions have become more solid; there are opportunities for further development, implementation and production of new preparations. In 2012, the companies within the SJSC "UZFARMSANOAT" holding the international ISO-9001 and GMP certifications implemented 58 position items of new preparations. For comparison, the same indicator in 2011 equaled 43.

THE ACHIEVEMENTS OF THE COMPANIES CERTIFIED TO THE INTERNATIONAL QUALITY MANAGEMENT STANDARDS

The **JV "JURABEK LABORATORIES"** has established new workshops for production of cephalosporin antibiotics and infusion solutions certified to the GMP international standards. This provided the company with the opportunity to increase the production volume almost 3-fold within 3 years – from UZS 18.2 bln. to UZS 54.0 bln. The nomenclature of the items produced has also increased – from 14 to 23 preparation position items.

Another sample is the **PE "DENTAFILL PLUS"**. The company has launched new production lines for ointments and suppositories that have not been produced in the republic earlier. The production spectrum has increased lately from 58 to 130 position items, and the increase in production has reached UZS 16.5 bln. in 3 years (from UZS 2.2 bln.).

These companies are equipped with the world's leading technological equipment from Switzerland, Japan, China, India, Russia etc., which ensures an up-to-date production organization and high quality of the produce that meets the international standards requirements.

The **JV "NOVOPHARMA PLUS"** expands the production of ampule preparations and powder antibiotics packed in injection bottles. There are 25 position items being produced in 40 dosages. The quality of the company's produce is ensured by the GMP international certificate.

The **PSPE "RADIKS"** was established in 2002 and has various workshops for production



of injection solutions, tablets, infusion solutions, ointments and herbal preparations. The nomenclature includes 85 position lines in 108 dosages. The company operates in accordance with the ISO-9001 international standard.

In 2006 an Uzbek large wholesale company, **FE LLC "ASKLEPIY"**, established a daughter organization, a pharmaceutical company **"NIKA PHARM"**. Consumers have trust in this company because of its constant attention to the clients' needs and their timely provision with the high quality products. The company produces 60 position lines of medications in 75 available dosages. Today **"NIKA PHARM"** holds the national GMP certificate (Good Manufacturing Practices).

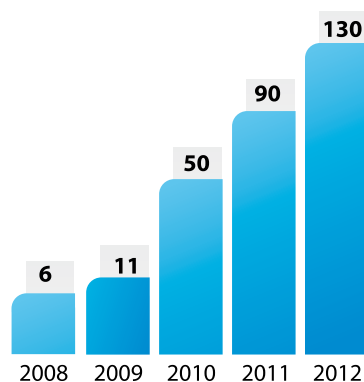
The specialized **JV "ASIA TRADE"** was founded in 2011 for production of disposable syringes and blood transfusion systems. The production capacity is 200 mln. pieces of medical products annually.

Medications and medical products are produced in accordance with **998** standards and normative technical documents registered in the established order, including **965** normative documents (Pharmacopoeial Article, Temporary Pharmacopoeial Article, Company's Pharmacopoeial Article, Normative Document) on production of medications, **23** (Tsh), **2Kts**, and **8** GOSTs on medical products and sanitary and hygiene items. 973 documents are harmonized with the international requirements of the American Pharmacopeia, the British Pharmacopeia and the International Pharmacopeia.

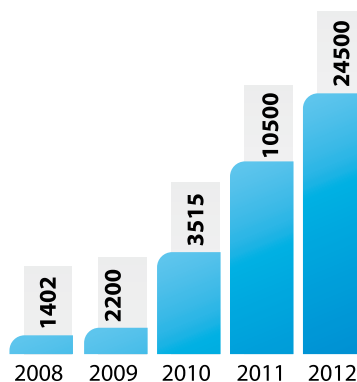


JV "ASIA TRADE"

Dynamics of the number of medication position items increase at the PE "DENTAFILL"



Increase in production at the PE "DENTAFILL PLUS"



PE "DENTAFILL PLUS"

All pharmaceutical produce is subject to mandatory certification. This task is executed by the Main Department for Quality Control of Medicines and Medical Equipment under the Ministry of Health of the Republic of Uzbekistan, 3 certification centers and their 4 branches, as well as 13 test laboratories located in different regions of the country. Besides, every company has its own analytical laboratories, 29 companies have laboratories that were certified or accredited for quality control.

The analytical laboratories of the companies are equipped with the modern instrumentation.

The measures aimed at development and implementation of the international quality systems require simultaneous measures on professional trainings for the specialists. During the last 3 years over 500 employees of the companies within the SJSC "UZ-FARMSANOAT" have upgraded their professional skills.



The SJSC "UZFARMSANOAT"
Companies' Products Export Geography

Implementation of the international ISO standards contributes not only to the development of enterprises, strengthening their position in foreign markets, but also requires investing in realization of new projects.

One of the key objectives of the pharmaceutical industry is maximizing the saturation of the internal market with the domestic medications, establishing competitive domestic enterprises with foreign investments, and exporting products of own production.

Currently 23 companies within the Concern "UZFARMSANOAT" actively export their produce. They have 227 positions of medical preparations registered in 12 foreign countries. 43 medications are undergoing the registration process in 4 countries. The main importers of the pharmaceutical produce from Uzbekistan are Afghanistan, Azer-





JV "SAMSUN-TASHKENT-PHARM LTD"

baijan, Armenia, Georgia, Kazakhstan, Kyrgyzstan, Russia, Tajikistan, Turkmenistan, Ukraine, Moldova and Mongolia.

ON IMPORT OF RAW MATERIALS, SUPPLEMENTARY MATERIALS, COMPONENTS AND EQUIPMENT FOR ORGANIZATION OF DOMESTIC PRODUCTION

In 2010 the import volume of the ready-made pharmaceutical produce amounted USD 373.7 mln., which was slightly lower than the volume of 2009 (USD 411.6 mln.). This decrease is explained by the implementation of a number of investment projects, deeper localization of the medical preparations production. The imported ready-made pharmaceutical produce for the amount of USD 309.8 mln. (83%) was intended for retail. However, in 2012 the import of ready-made medical preparations increased up to USD 530 mln., which is by 142% higher than the level of 2010 and by 125% higher than that of 2011.

In 2011 for the needs of own production of medications and medical products the companies within the SJSC "UZFARMSANOAT" imported raw materials for the amount of USD 36.2 mln. In 2012 this figure amounted USD 35.7 mln.. The quantity of medical substances purchased during these years equaled USD 23.7 mln (2011) and USD 25.1 mln. (2012), or 540 and 573 tons correspondingly.

In 2012 the companies imported technological equipment for modernization, technical and technological re-equipment, establishment of new facilities for the amount of USD 13.7 mln., and in 2011 – for the amount of USD 36.2 mln..



PSPE "RADIKS"

5. SCIENTIFIC RESEARCH AND INTERACTION WITH THE PROFILE INSTITUTES. PRODUCTION OF SUBSTANCES

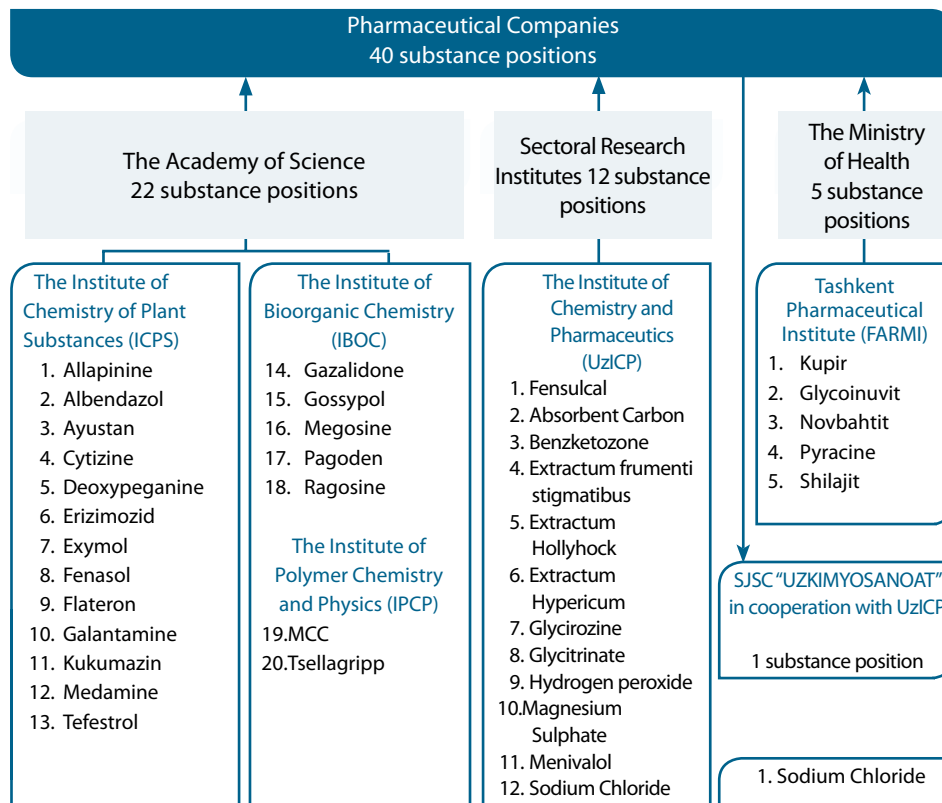
Much attention is paid to the industry's production incentives, modernization, technical and technological re-equipment, implementation of applied scientific and innovative developments. One way to achieve development is to ensure close cooperation between the industrial enterprises and the specialized research institutions.

Cooperation and mutual use of the existing production infrastructure of the SJC "UZFARMSANOAT" and the scientific capacity of the research institutions can improve the efficiency of the existing facilities, eliminate the costs of establishing new ones, promote expansion of the range of products based on local raw materials, increase the joint export potential.

In accordance with the developed cooperation mechanism between the specialized institutes of the Academy of Sciences, the Ministry of Health and the pharmaceutical industry, the SJSC "UZFARMSANOAT" provides equity financing of innovative projects aimed to develop new technologies for medication production. Cooperation during the last 10 years made possible, on the experimental basis of the academic and sectoral institutes, to carry out the serial production of 40 positions of medications, 30 of which are original preparations.

The SJSC "UZFARMSANOAT" actively cooperates with the Academy of Science, the SJSC "UZKIMYOSANOAT", the Ministry of Health, and the specialized departments of the Ministry of Higher and Secondary Vocational Education on the issues of production organization and observes the economic and scientific treaties that provide for development and implementation in production of new medical substances and original preparations.

Interaction of the pharmaceutical companies and the scientific community on the issues of medical preparations production organization based on domestic substances



To date, the scientific institutions of the republic have studied the biological activity of a number of combinations with anti-arrhythmic, cholinesterase, anti-inflammatory, adaptogenic, estrogenic, hypotensive, hepatoprotective, antioxidant, anti-atherosclerotic, anti-microbial, anti-virus and other types of activity. Based on that research the scientific institutions have developed domestic technologies for production of 40 kinds of medical substances and ready-made preparations belonging to 27 pharmacotherapeutic groups.

The Uzbek Research Institute of Chemistry and Pharmaceutics, the Tashkent Institute of Vaccines and Serums, the Institute of Bioorganic Chemistry, the Institute of Polymer Chemistry and Physics, and the Tashkent Pharmaceutical

The List of the Developed Medical Substances for the Enterprises of the Pharmaceutical Industry

| Nº | Title | Medical Substances |
|----|--|--|
| 1 | Anti-inflammatory preparations | Benzketozone, Fensulkal |
| 2 | Anti-virus preparations | Gazalidone, Gossypol, Tsellagripp, Megosine, Ragsine |
| 3 | Anthelmintic | Albendazol, Medamine, Fenazol |
| 4 | Bronchopulmonary medications | Glycirozine, Extractum Hollyhock, Glycitrinate |
| 5 | Cardiovascular preparations | Menivalol, Nitroglycerin, Allapinine, Erizimozid |
| 6 | Sugar-decreasing | Glypyl, Glycoinuvit |
| 7 | Medications for neuromuscular transmission | Galantamine |
| 8 | Cholinesterase inhibitor | Deoxypeganine |
| 9 | Ferment preparations | Kukumazim |
| 10 | Lacto-stimulating | Ayustan |
| 11 | Anti-atherosclerotic | Flateron |
| 12 | Dermatoprotector | Exymol |
| 13 | Metabolism correction | MCC, Microcep |
| 14 | Antiseptic | Hydrogen peroxide |
| 15 | Psoriasis and vitiligo treatment | Kupir |
| 16 | Hemostatic | Pagoden |
| 17 | Adaptogenic and antioxidant | Shilajit |
| 18 | For saline solutions | Sodium chloride, magnesium sulphate |
| 19 | Anti-diarrhea | Novbahtit |
| 20 | Hypocholesterinemic | Pyracine |
| 21 | Enterosorbent | Absorbent Carbon |
| 22 | Estrogenic | Tefestrol |
| 23 | Anti-inflammatory and antiseptic | Extractum Hypericum |
| 24 | Choleretic and diuretic | Extractum frumenti stigmatibus |
| 25 | Respiratory analeptic | Cytizine |
| 26 | Other | Vagicit |

Institute have experimental workshops for production of medical preparations substances. Under the Institute of Chemistry of Plant Substances there are pilot production facilities with the capacity to process 100 tons of plant resources per year.

The Uzbek Research Institute of Chemistry and Pharmaceutics carries out development and pilot production of medical preparations and substances from synthetic, plant and mineral raw materials.

It developed the technology for producing a pharmacopeia substance of sodium chloride used in preparation of injection solutions, as well as preparations of plant origin: maidine, hyperhole, alceum, anti-inflammatory medications etc. The produce is being sold to the companies within the SJSC “UZFARMSANOAT” for the purposes of production of medical forms.

Within the current year, the Institute’s pilot facilities have produced 8 tons of sodium chloride substance that meet the pharmacopeia requirements. The scientists also develop highly-efficient catalytic processes and new catalyzers for pharmaceutical, oil-processing and chemical industries.

The Institute has completed the works on mastering the production of an enterosorbent Zerotox and a pacifying syrup Phytopassit. The works on the development of production of the Phytopassit capsule formare in theirfinal stage, and the development of production of a hepatoprotector Hepaprot Neo has recently started.

The List of Medical Preparations of the Uzbek Chemical Pharmaceutical Institute Implemented and in the Process of Implementation in 2012

| Nº | Medication Title | Trademark | Pharmacotherapeutic Group | Note |
|----|-------------------------|--------------|---------------------------|----------------------------------|
| 1 | Phytopassit (syrup) | Phytopassit | Sedatives | Implemented |
| 2 | Zerotox (substance) | Zerotox | Enterosorbents | Implemented |
| 3 | Hepaprot Neo (capsulec) | Hepaprot Neo | Hepatoprotectors | In the process of implementation |
| 4 | Zerotox(capsules) | Zerotox | Enterosorbents | In the process of implementation |
| 5 | Phytopassit (capsules) | Phytopassit | Sedatives | In the process of implementation |

The Tashkent Research Institute of Vaccines and Serums, the oldest in the republic, was founded in 1918 and until today contributes to the development of the preventive medicine areas. The scientists of the institute conduct research on the development of new generation of diagnostic and prophylactic medical preparations: test systems, vaccines, serums, bacteriophages and ferment preparations.

The Oriental Medicine Research Institute works on the development of new preparations from local plant materials. The developments of the scientists are based on the experience of the traditional medicine combined with the modern pharmacology. The Institute has its own plantations of herbs – chamomile, calendula, rosehip, motherwort, St. John's wort, etc.

In the years to follow the republican pharmaceutical institutes and companies plan to focus their efforts on the development of production of wide-spectrum generics in all forms, including tablets, capsules, injection preparations, infusion preparations, ointments etc., as well as psychotropic substances, immunological and anti-cancer medications, insulin, medicines from plant materials, etc..

The development of the pilot production basis of the research institutes made possible the organization of substances production. As a result the nomenclature of the substances developed and being produced has increased from 8 (in 2006) to 46 (in 2012) during the last decade.

The volume of the ready-made medical preparations produced from the domestic substances has increased in 2012 in comparison with 2011 by 157.8% in monetary value and by 294.5% in in-kind value.

ON IMPLEMENTATION OF NEW MEDICAL PREPARATIONS AT THE ENTERPRISES WITHIN THE STRUCTURE OF THE SJSC "UZFARMSANOAT"

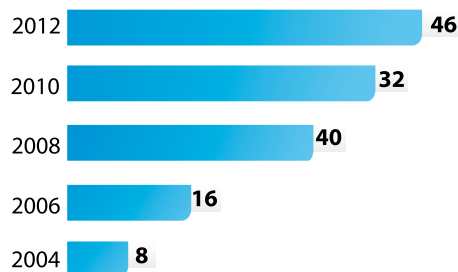
The domestic producers are focused on production of the most demanded and best selling medical preparations and, primarily, on satisfaction of the needs of the medical institutions and population in the medications included in the Basic Medical Preparations List (BMPL).

Developments ready for implementation

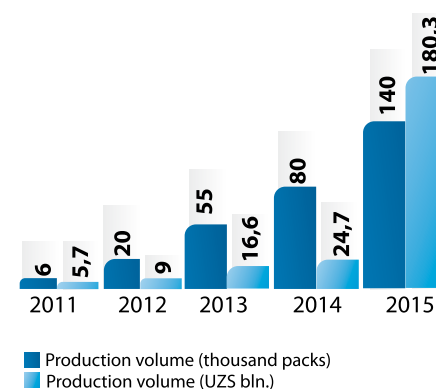




Dynamics of the developed substances nomenclature growth for 2004-2012

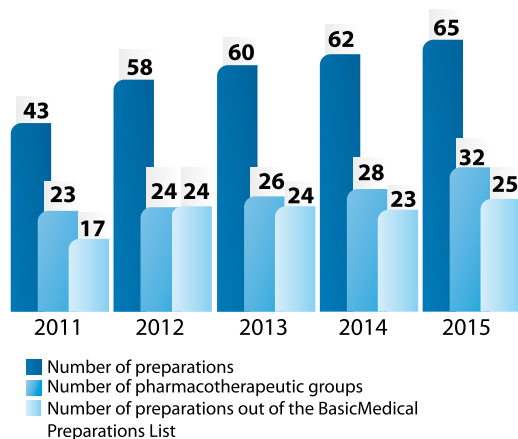


Dynamics of medications production based on domestic substances by 2015



JV "NOVOPHARMA PLUS"

Dynamics of implementation of new preparations



In 2012 the companies of the SJSC "UZFARMSANOAT" input in production 58 position items of generic medical preparations in 71 dosages and 29 pharmacotherapeutic groups that have not been produced in the country before. For comparison, in 2011 this figure comprised 43 position items in 57 dosages.

37 preparations out of those implemented in 2012 belong to the Basic Medical Preparations List. Comparing to 2011 the increase in the number of the positions of the implemented preparations out of the BMPL equals 217%.

The leaders in mastering and implementation of the new preparations for the last 2 years are the following companies: the JV "NOVOPHARMA PLUS", the DPE "NIKA PHARM", the PE "DENTAFILL PLUS", the FE "NOBEL PHARMSANOAT" and the JV "REMEDY GROUP".

The indicators of the new preparations implementation in 2011-2012 showed positive dynamics of development of the local production of medicines, previously imported from abroad. In order to maintain this dynamics and reduce dependence on imports for the years 2013-2015 it is necessary to master the production of

**The List of New Preparations Implemented in 2012
at the SJSC "UZFARMSANOAT" Companies**

| Nº | Group title | Number of Positions |
|---|---|---------------------|
| Out of the Basic Medical Preparations List (BMPL) Including: | | 37 |
| 1 | Antibiotics | 6 |
| 2 | Antifungal preparations | 2 |
| 3 | Anti-allergic preparations | 3 |
| 4 | Antibacterial preparations | 2 |
| 5 | NSAIDs | 2 |
| 6 | Antihypertensive preparations | 1 |
| 7 | Anti-diabetic preparations | 1 |
| 8 | Vitamins | 1 |
| 9 | TB-medications | 1 |
| 10 | Anticonvulsant preparations | 1 |
| 11 | Iodine-containing preparations | 1 |
| 12 | Saline solutions | 1 |
| 13 | Mineral preparations | 1 |
| 14 | Diuretic preparations | 1 |
| 15 | Laxatives | 1 |
| 16 | Nootropics | 1 |
| 17 | Other preparations | 9 |
| Other preparations not included in the BMPL, Including: | | 15 |
| 18 | Antibiotics | 1 |
| 19 | Antibacterial preparations | 1 |
| 20 | Anthelmintics | 1 |
| 21 | Cardioprotectors | 1 |
| 22 | Antivirus preparations | 1 |
| 23 | NSAIDs | 2 |
| 24 | Preparations for metabolic processes correction | 1 |
| 25 | Medications for treatment of acute respiratory infections | 1 |
| 26 | Trophic tissue stimulators | 1 |
| 27 | Anti-allergic preparations | 2 |
| 28 | Sedatives | 2 |
| 29 | Ferments | 1 |



JV LLC "JURABEK LABORATORIES"



DPE "NIKA PHARM"



187 new preparations, including 15 positions of original preparations and 72 preparations out of the BMPL.

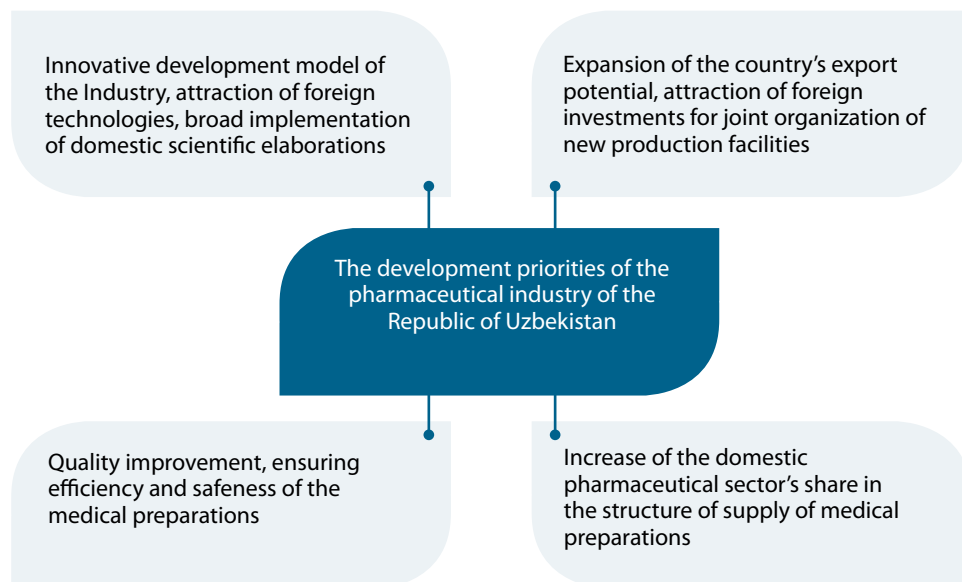
ON PARTICIPATION OF THE SJSC "UZFAMSANOAT" COMPANIES IN THE LOCALIZATION PROGRAMME

29 projects being implemented by 16 companies of the SJSC "UZFARMSANOAT" are included in the Localization Programme. The production volume of these projects amounts UZS 228.7 bln., and the growth ratio is 125% in comparison to the similar period of 2011. The average localization level has increased within the same period from 46.8 to 54.2%. Implementation of new investment projects in the industry shall lead to an increase of the medical preparations localization level up to 62% in 2015.

JV "UZGERMED PHARM"

6. ON THE PRIORITIES OF THE FURTHER DEVELOPMENT OF THE PHARMACEUTICAL INDUSTRY OF THE REPUBLIC OF UZBEKISTAN

The Programme of the pharmaceutical industry development for the period up to 2015 is aimed at gradual reduction of the country's dependence on imports of medications, fuller utilization of domestic production facilities, raw materials, scientific



and technological capabilities and creation of new pharmaceutical production facilities based on modern technologies.

Creating conditions for further development of the pharmaceutical industry and investment projects implementation should lead to:

- increased production of medicines and medical devices up to USD 500 mln. equivalent;
- increased export volume of the domestic pharmaceutical products;
- creation of an effective system of medication security.

Based on the perspectives and conditions available for development of the pharmaceutical industry, the production enterprises plan to improve the achieved results and to expand significantly in the following 2-3 years the assortment of the preparations produced. For example:

- the JV LLC “NOVOPHARMA PLUS” plans to launch the production of new injection preparations for treatment of cardiovascular diseases, pain killers and preparations regulating metabolism processes;
- the JV LLC “JURABEK LABORATORIES” organizes the production of new nomenclature of infusion solutions and injection preparations;
- the PSPE “RADIKS” intends to produce new nomenclature of antibiotics;
- the JV “NOBEL PHARMSANOAT” plans to start the production of antibiotics, anti-inflammatory, anti-fungal, anti-virus, antihypertensive and other preparations (total 83 position items);
- the OJSC “UZBIOPHARM” has intention to organize the production of immune biological preparations and test systems for infectious diseases diagnostics;
- the FE LLC “CODE PHARM” plans to launch the production of medical preparations for treatment of a number of socially important diseases.

As a result of the implementation of the Programme of the pharmaceutical industry development, by the year 2015 the production volumes of the medications and medical products will significantly increase (in comparison with 2011). In particular, the increase in production of:

- injection preparations will comprise 419.0 mln. units (increase by 2.8 times);
- infusion preparations will comprise 40.0 mln. bottles (increase by 1.8 times);

- tablet preparation forms will comprise 194.0 mln. units (increase by 3.5 times);
- capsule preparations will comprise 10.3 mln. units (increase by 4 times);
- ointments will comprise 18.0 mln. units (increase by 2.3 times);
- vaccines and serums will comprise 5 mln. dosages (increase by 5.5 times)
- medical preparation substances will comprise 81.0 tons (increase by 10 times);
- medical products will comprise 720.0 mln. units (increase by 11 times).

Currently the following groups represent the main product nomenclature of the enterprises of the SJSC "UZFARMSANOAT":

medical preparations – injection and infusion preparations, preparations in capsule, tablet and powder forms, bottled antibiotics, liquid preparation forms, ointments;

medical products – disposable syringes and infusions systems, dressings, hygroscopic and medical cotton wool, suture;

other product types – glass vials and bottles, polyethyleneproducts, medicinal teas and mixtures, biologically active supplements (BAS), disinfecting preparations, bio-preparations and diagnosticums.

THE LIST OF THE SJSC “UZFARMSANOAT” COMPANIES AS OF OCTOBER 7, 2013

| № | Company Name | Activity Type | Contact Information |
|----|---|---------------------------|---|
| 1 | TASHKENT RESEARCH INSTITUTE OF VACCINES AND SERUMS | Research Institute | Postolova Elena Anatolievna 37, Mavlianov str., Yunusabad district, Tashkent city tel. (+998)-71-234-77-97, 234-77-22; 687-54-00 |
| 2 | UZBEK RESEARCH INSTITUTE OF CHEMISTRY AND PHARMACEUTICS NAMED AFTER A. SULTANOV | Research Institute | Mahkamov Khursand Mansurovich 40, F.Khodjaev str., Mirzo-Ulugbek district, Tashkent city tel. (+998)-71-262-59-22, 262-59-36; 316-11-74 |
| 3 | ORIENTAL MEDICINE RESEARCH INSTITUTE | Research Institute | Vafakulova Gulchekhra Bakhramovna 35, Alpomish str., Samarkand city tel. (3662) – 21-07-67, 227-16-00 |
| 4 | SPA “VACCINE” | Research Institute | Vafakulov Bakhron Khakimovich 35, Alpomish str., Samarkand city tel. (3662) – 21-07-67 |
| 5 | LLC “A.B. BIOKOM” | Production of medications | Akbarov Abdurafik Bakhramovich 27, Ezgulik str., Tashkent city tel. 350-20-51, 170-41-70 |
| 6 | JV LLC “ALBI-PHARMA” | Production of medications | Ruziev Mukhtor Mukumjanovich 28, Navruz str., Tashkent city tel. 234-97-26, 234-83-76, 505-00-40 |
| 7 | LLC “AMALIY MED FARM” | Production of medications | Tokhtaev Ravshan Muratovich IV- Microdistrict, Gulistan city tel. 234-89-65, (3672) 26-58-07, 26-27-89 |
| 8 | FE LLC “CODEPHARM” | Production of medications | Thomas Kiska 12, Oybek str., Mirabad district, Tashkent city tel. 330-97-32 |
| 9 | PE “DENTAFILL PLUS” | Production of medications | Kosimov Abdunosir Kodirovich 1, Karimov str., Zangiata district, Tashkent region tel. 218-67-45, 218-04-22, 301-14-39 |
| 10 | LLC “GALENKA” | Production of medications | Oltmyshov Bakhodir Sherkulovich 1, Mirpulatov str., Olmazar district, Tashkent city tel. (+998) – 71-228-04-70, 228-04-71 |

| Nº | Company Name | Activity Type | Contact Information |
|----|-------------------------------|---------------------------|--|
| 11 | JV LLC "GUFIC AVICENNA" | Production of medications | Mirzakhodjaev Jura Mukhamedjanovich 74, Namozgokh str., Bukhara city tel. (365) 226-38-49, 226-17-30 |
| 12 | JV LLC "HANSANG PHARM" | Production of medications | Khalilov Farhod Abidovich Navoi region, SIEZ "Navoi" tel. 461-33-85 |
| 13 | PE "IMMUNOMED" | Production of medications | Vostokina Svetlana Illarionovna 3A, Humoyun str., Mirzo-Ulugbek district, Tashkent city tel. 261-36-63, 185-58-30 |
| 14 | LLC "INVEST MED PHARM PLUS" | Production of medications | Jumaev Olim Saidovich 1A, Bodomzor yuli str., Yunusabad district, Tashkent city tel. 249-39-35, 953-99-98 |
| 15 | LLC "INNEKMED FARM" | Production of medications | Nazarov Abdurakhmon Bardankul kfi, Yukorichirchik district, Tashkent region tel. (895) 515-33-22, (870) 983-38-22 |
| 16 | JV LLC "JURABEK LABORATORIES" | Production of medications | Kariev Sardor Khikmatovich 165, Olmazor str., Chilanzar district, Tashkent city tel. 140-54-11, 808-20-89, 319-99-96 |
| 17 | LLC "LAFZ" | Production of medications | Makaddirov Mirjavlon Marvar Ugli 6a, B.Zakirov str., Shaykhantaur district, Tashkent city tel. 249-65-05, 273-95-20, 319-32-22 |
| 18 | LLC "LEKINTERKAPS" | Production of medications | Aliev Ubaydulla Erkinovich 1, Beruni str., Kizalok kfi, Zangiata district, Tashkent region tel. 150-99-47, 644-09-22 |
| 19 | JV LLC "MERRYMED FARM" | Production of medications | Azizov Nasim Nematovich Sherbulok mfi, Bogishamol kfi, Namangan district tel. 224-67-22, 234-59-18 |
| 20 | DPE "NIKA PHARM" | Production of medications | Rukhman Eleonora Rustemovna 48, Maraimov str., Mirzo-Ulugbek district, Tashkent city tel. (+998) – 71-250-42-24, 150-87-04/05, -93-720-59-05 |
| 21 | FE "NOBELPHARMSANOAT" | Production of medications | Kiurshat Jenk Chetin 23, T.Shevchenko str., Mirabad district, Tashkent city tel. (+998) – 71-256-13-63, 168-68-33, 590-95-08 |

| Nº | Company Name | Activity Type | Contact Information |
|----|------------------------------------|---------------------------|---|
| 22 | JV LLC "NOVA PHARM" | Production of medications | Satvinder Singh 92a, Nodir str., Olmazar district, Tashkent city tel. (+998) – 71-240-62-26, 240-62-09, 317-05-42 |
| 23 | JV LLC "NOVOPHARMA PLUS" | Production of medications | Abbosov Olim Khaydarovich 37, Mavlianov str., Yunusabad district, Tashkent city tel. (+998) – 71-234-79-84, 234-77-87 |
| 24 | LLC "OROM-BIOPREPARAT" | Production of medications | Ogay Darya Kisenovna 12-96, Uch Kahramon str., Tashkent city tel. (+998) – 71-269-05-42, 262-15-76 |
| 25 | LLC "PLAST PHARM MEDICAL" | Production of medications | Yarkulov Alijon Niazmatovich 1a, Bodomzor yuli str., Yunusabad district, Tashkent city tel. 947-68-69 |
| 26 | PSPE "RADIKS" | Production of medications | Karimov Abdugafur Abduvakhobovich 50, Lutfi str., Chilanzar district, Tashkent city tel. (+998) – 71-273-60-48, 273-80-58, 174-42-38 |
| 27 | JV LLC "REKA MED PHARM" | Production of medications | Yariev Bekzod Shukurjanovich 36, M.Zakhidov str., C.Rakhimov farm, Sirdaria region tel. 2356590, -95-170-07-50, 916-77-77 Makhmud Salomovich 968-20-55 |
| 28 | JV LLC "REMEDY" | Production of medications | Sadykov Abid Kamilovich 2b,1/4, Karakamish str., Olmazar district, Tashkent city tel. (+998) – 71-248-61-06, 919-50-22 |
| 29 | JV LLC "REMEDY GROUP" | Production of medications | Ibragimova Shakhnoza Saidakhmedovna 51, Mirpulatov str., Olmazar district, Tashkent city tel. (+998) – 71-248-02-04, 998-41-05 |
| 30 | SE "SAMO" | Production of medications | Yunusov Bakhtier Mannapovich 142b, Kh.Abdullaev str., Mirzo-Ulugbek district, Tashkent city tel. (+998) – 71-260-13-15, 126-57-76 |
| 31 | JV LLC "SAMSUN-TOSHKENT PHARM LTD" | Production of medications | Juraev Ulugbek Irkinovich 42, Khodjaev str., Olmazar district, Tashkent city tel. (+998) – 71-214-53-33, 214-52-23, 803-26-00 |
| 32 | JV LLC "SALUBRIS VITA" | Production of medications | Lim Aleksandr Leonidovich 241, Muynak str., Khamza district, Tashkent city |

| Nº | Company Name | Activity Type | Contact Information |
|----|-------------------------------|---|--|
| 33 | LLC "TASHFARM A.I." | Production of medications | Juraev Alisher Irkinovich Geophizika settlement, Kibray district, Tashkent region tel. 261-25-71, 261-22-52 |
| 34 | JV LLC "UZGERMEDPHARM" | Production of medications | Nazarov Abdurakhmon Abdusamatovich Bardankul kfi, Yukorichirchik district, Tashkent region tel. (870) 983-38-22, 808-14-03 |
| 35 | JV LLC "ULTRA HEALTH CARE" | Production of medications | Oripov Rustamjon Akhmedjanovich 50/30, U.Nasyr str., Yakkasaray district, Tashkent city tel. (+998) – 71-253-60-35, 966-34-66 |
| 36 | PE "ZIYO NUR FARM" | Production of medications | Irisov Mukhammadjon Nazrullaevich 5/4, Bunyodkor str., Chilanazar district, Tashkent city tel. (+998) – 71-287-62-22, 958-63-44 |
| 37 | OJSC "O'ZKIMYOFARM" | Production of medications | Ortikov Ravshan Musinovich 23, T.Shevchenko str., Mirabad district, Tashkent city tel. (+998) – 71-256-60-59, 256-71-68, 189-08-88 |
| 38 | LLC "LAXISAM PHARMACEUTICALS" | Production of medications | Abdullaev Marat Marksovich 254, Magazin Mavzuk str, Tashkent city tel. (+998) – 71-228-14-24, 987-44-45 |
| 39 | FE LLC "ARMENIA" | Production of vaccines, serums, BAS and diagnostics means | Miskirijian Karen Migranovich 29, F.Khujaev str., Mirzo-Ulugbek district, Tashkent city tel. (+998) – 71-120-40-05 |
| 40 | PSPE "BIBINOR" | Production of vaccines, serums, BAS and diagnostics means | Madaminov Maksudbek Saburovich 2, E. Bobokhon str., Shaykhantaur district, Tashkent city tel. (+998) – 71-243-44-01, 606-84-38 |
| 41 | PE "FITO OLAM" | Production of vaccines, serums, BAS and diagnostics means | Abdurashitov Bakhtier Ergashboevich Okhunboboev town, Jalalkuduk district, Andijan region tel. (3742) 74-21-29, 91-605-56-90 |
| 42 | OJSC "UZBIOPHARM" | Production of vaccines, serums, BAS and diagnostics means | Shukurov Surat Zufarovich 37, Mavlianov str., Yunusabad district, Tashkent city tel. (+998) – 71-234-77-89, 317-92-90 |
| 43 | KDIP "IPARBIOINTER" | Production of vaccines, serums, BAS and diagnostics means | Mukhamedjanova Muazzam Bakievna 120a, A.Temur str., Andijan city tel. (+ 998) – 90-975-22-77, -95-975-22-77 |

| Nº | Company Name | Activity Type | Contact Information |
|----|---------------------------------------|--|---|
| 44 | LLC "ELASTIKUM" | Production of dressing materials | Yusupova Zulfia Karimbaevna 15, Bayroktol str., Olmazar district, Tashkent city tel. (+998) – 71-150-12-59, 505-15-80 |
| 45 | PE "XABIBULLO GLOBAL" | Production of dressing materials | Gafurov Makhmudjon Yuldashevich 4, Madanli suvlar str., Chigatoy-Oktepa kfi, Zangiata district, Tashkent region tel. 240-12-19, 518-80-88 (Umarali aka) |
| 46 | LLC "DORIVOR O'SIMLIKLAR" | Cultivation, gathering and packaging of medical plants | Mirkhaitov Khamidulla Mirkhaitovich Parkent district, Tashkent region tel. (+998) - 91-770-43-65 |
| 47 | LLC "GLYCYRRHIZA GLABRA" | Cultivation, gathering and packaging of medical plants | Sultanov Toir Sultonovich 32, Darsan str., Akmangit settlement, Nukus city, Karakalpakstan Republic tel. 236-36-81, 153-34-12 |
| 48 | AGRICULTURAL COMPANY "SHOVOT BO'YONI" | Cultivation, gathering and packaging of medical plants | Khajimuratov Shukhrat Barakaevich Shavat district, Khorezm region tel. (+998) – 91-425-64-11, (+994) – 90-579-17-95 |
| 49 | LLC "ZAMONA RANO" | Cultivation, gathering and packaging of medical plants | Azimov Saidikrom Tashkentboevich Nomdanak settlement, Parkent district, Tashkent region tel. 250-42-24, 140-10-90 |
| 50 | LLC "BIOMIR" | Cultivation, gathering and packaging of medical plants | Alimov Ziyodulla Rakhimovich 51. Yangi Olmazar str., Olmazar district, Tashkent region |
| 51 | LLC "PHARM PRODUCT" | Cultivation, gathering and packaging of medical plants | Urinov Ilkhom Mukhiddinovich 160, Bogishal str., Yunusabad district, Tashkent city tel. 311-00-73 |
| 52 | LLC "NARKAR SERVIS" | Cultivation, gathering and packaging of medical plants | Bekanov Khasan Nurullaevich 11a, Kichik Khalka str., Tashkent city tel. (+998) – 71-271-52-36/35 |
| 53 | LLC "MEDIOFARM" | Cultivation, gathering and packaging of medical plants | Bakhadirov Bakhodir Khayrullaevich 5, Jomiy str., Olmazar district, Tashkent city tel. (+998) – 71-225-98-91 |

| Nº | Company Name | Activity Type | Contact Information |
|----|--------------------------|---------------------------------------|---|
| 54 | LLC "AGRO PLAST POLIMER" | Production of supplementary materials | Babakhodjaev Sherzod Abdazkhodjaevich 43, 1- blind alley, Kh. Toshmukhamedov str., Olmazar district, Tashkent city tel. 757-42-44 |
| 55 | LLC "FLEX PHARM" | Production of supplementary materials | Koroleva Janna Aleksandrovna 12, Tarobiy str., Sergeli district, Tashkent city tel. 398-01-85 |
| 56 | LLC "GALEN MED PHARM" | Production of supplementary materials | Dadakhodjaev Bokhodir Kudratullaevich 1A, Bodomzor iuli str., Yunusabad district, Tashkent city tel. (+998) – 71-212-42-43, 212-42-23 |
| 57 | LLC "MAKROFARM-OPTIMA" | Production of supplementary materials | Juraev Ulugbek Irkinovich 42, Khodjaev str., Olmazar district, Tashkent city tel.)+998) – 71-214-89-39, 214-52-23 |
| 58 | PE "NASA" | Production of supplementary materials | Ulubabyan Sergey Aramovich 22, Bogiston str., Chilanazar district, Tashkent city tel. 273-44-01, 186-51-64 |
| 59 | PE "RAHIM FARM GROUP" | Production of supplementary materials | Khudaynazarov Rakhim Kudratullaevich 3/48, Pirmukhamedov str., Mirabad district, Tashkent city tel. 254-06-25, -91-163-83-40 |
| 60 | LLC "TB FARM PLAST" | Production of supplementary materials | Bilalov Tursunmurat Jalalovich 9, Chinobod str., Yunusabad district, Tashkent city tel. (+998) – 71-212-42-43, 212-42-23, 484-35-33 |
| 61 | LLC "TUBEX" | Production of supplementary materials | Abdullaev Farkhod Obidovich 22a, J. Ostonov str., Bektemir district, Tashkent city tel. (+998) – 71-247-78-94 |
| 62 | LLC "MED STANDARD GLASS" | Production of supplementary materials | Kadirov Abdushukur Abdunabi ugli 298a. Chopon-ota str., Tashkent city tel. (+998) -93-507-28-81, -71-273-92-31 |
| 63 | LLC "MOHIR BEK" | Production of supplementary materials | Tashimov Bakhtier Iuldashevich 12, Yangi Tarnov str., Mirzo-Ulagbek district, Tashkent city tel. (+998) – 71-235-42-37, 234-17-4 |
| 64 | FE LLC "CAMPALIA" | Production of supplementary materials | Toshpulatov Dilshod Abduvakhobovich 9, Stroitel'naya str., Khamza district, Tashkent city tel. (+998) – 71-295-30-28, 295-25-80 |

| Nº | Company Name | Activity Type | Contact Information |
|----|---|-----------------------------------|---|
| 65 | LLC "AGRO BIO KIMYO" | Production of other product types | Ergashev Nazarbay Khashimovich 48, Shokhjakhon str., Chilanzar district, Tashkent city tel. (+998) – 71-260-43-60, 389-53-24 |
| 66 | LLC «AND OIL NEFT» | Production of other product types | Tadjibaev Tolibjon Olimovich 208, Osh str., Andijan city tel. (+998) – 74-261-09-40, 272-30-80 |
| 67 | LLC "BIO CHEMICAL" | Production of other product types | Ganiev Khusan Saidrashidovich 37, Kunchilik alley, Kukcha Darboza str., Shaykhataur district, Tashkent city tel. (+998) – 71-242-45-25, 242-51-55, 326-51-46 |
| 68 | JV LLC "ASIA TRADE" | Production of other product types | Mirjuraev Aziz Rinatovich 236a, Navruz str., Zangiata district, Tashkent region tel. 150-74-39, 125-11-33 |
| 69 | LLC "MAGNUM MEDIKAL SERVIS" | Production of other product types | Jianbaev Otabek Eldavlatovich 8/8/30, Jangokh area, Tashkent city tel. (+998) – 71-273-92-52,-90-945-40-32 |
| 70 | JV LLC "EKOPLAST SYSTEMS" | Production of other product types | Mirakhmedov Anvar Nosirovich 136a, Usta-Shirin str., Olmazar district, Tashkent city tel. (+998) – 71-291-41-88, -95-177-50-99 |
| 71 | LLC "ORTOPEDIYA-INDUSTRIYA" | Production of other product types | Romanova Gavkhar Mavlanovna 52a, Asaka str., Mirzo-Ulugbek district, Tashkent city tel. (+998) – 71-237-36-35, 237-17-58. |
| 72 | AGRICULTURAL COMPANY "XORAZM FITO FARM" | Production of other product types | Jabborov Ozimjon Otakhonovich Cholish town, Urgench district, Khorezm region tel. (+998) – 91-425-64-11 |
| 73 | JV LLC "VITOTEX PLUS" | Production of other product types | Mukhamedov Avazkhon Sodik ugli 14, Kh. Gofurov str., Uchtepa district, Tashkent city tel. 589-00-20 |
| 74 | LLC "XAMIDOBOD IMKON" | Production of other product types | Mukhamedov Fakhritdin Abdukhamitovich 1a, Dustlik str., Bulungur district, Samarkand region tel. (+998) – 91-558-24-09 |

| Nº | Company Name | Activity Type | Contact Information |
|----|-------------------------------|-----------------------------------|---|
| 75 | JV LLC "UZGERSOV" | Production of other product types | Rustamov Shavkat Mustafoevich 8, Oltin Boshok str., Shaykhali settlement, Karshi city, Kashkadaria region tel. (+998) – 75-226-51-21, -90-425-00-03, -98-776-49-93 |
| 76 | LLC "CHORI PLAST" | Production of other product types | Usmonov Jamshid Choriev 85/71, Chilanzar str., Tashkent city tel. (+998) – 95-170-94-35, 170-80-09 |
| 77 | DE "ALIAS PHARMA" | Pharmaceutical products wholesale | Bakieva Mukhayo Kakhramonovna 3/45/50, Aviasozlar str., Khamza district, Tashkent city tel. (+998)-71-234-97-26, 186-86-18 |
| 78 | LLC TRADE HOUSE "ALIAS-SIBIR" | Pharmaceutical products wholesale | Yarkulov Alijon Niyazmatovich 1a, Bodomzor Yuli str., Yunusabad district, Tashkent city tel. 947-68-69 |
| 79 | LLC "ASTELLAS PHARMA" | Pharmaceutical products wholesale | Komilova Makhfuza Mirsultonovna 40, Chekhov str., Mirabad district, Tashkent city |
| 80 | LLC «BRAVO PHARM» | Pharmaceutical products wholesale | Artykov Abror Muzaffarovich Shopping center "Ardus", A. Temur str., Yunusabad district, Tashkent city tel. (+998) – 71-235-90-80, -94-930-07-00 |
| 81 | LLC «FAZO-LUXE» | Pharmaceutical products wholesale | Rakhimov Ibrokhim Umarjonovich Shopping street Navoi tel. (+998)-71- 246-16-96, 336-66-63 |
| 82 | PE «SHARQ DARMON» | Pharmaceutical products wholesale | Nasriddinov Jaloliddin 35a, Kh. Baykaro str., Bektemir district, Tashkent city tel. (+998)-71-256-58-99, 295-25-80, 517-80-40 |
| 83 | LLC «SOFDIL-FAYZ» | Pharmaceutical products wholesale | Khikmatov Nigmatulla Kuchkarovich 1/2, Tolaryk str., Khamza district, Tashkent city tel. (+998)-71-298-14-06, 154-50-51, 903-75-03 |
| 84 | LLC "TATMEDFARM" | Pharmaceutical products wholesale | Turakhanov Azam Tokhirjanovich 171a, 2 micro-district, Namangan city tel. (+998)-90-275-83-38 |
| 85 | LLC "SID" | Pharmaceutical products wholesale | Shamakhmudov Shorakhim Shovakhitovich 35a, Kh. Baykaro str., Bektemir district, Tashkent city tel. 305-69-69 |

NOTES



UZPHARMSANOAT
20 years