

**RESEARCH AND PRODUCTION  
Medical-Pharmaceutical Complex  
«NATURAL DOCTOR»  
(Moscow, Moscow Region and RF Regions)**



## GENERAL DATA ON THE APPLICANT

**Full and abbreviated name of the organization:**

Open Joint Stock Company «Holding «EDAS»

**Founded in:** August 2000

**Date and number of the Certificate of the State Registration of the company as a legal body:**

24.08.2000, series LP №032148

**Date and number of the State Registration of the Charter:**

24.08.2000, 002.012.003

**Date and number of the Certificate on entry to the Uniform State Register of Legal Entities:**

31.01.2003, series 77 №006912215 OGRI 1037739329066

**INN/KPP of the organization:** 77226301138/772601001

**Legal organizational form of the organization:**

Open Joint Stock Company

**Location:**

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3.	Olenev Anatoly Leonidovich	4

## **RESEARCH AND PRODUCTION MEDICAL- PHARMACEUTICAL PROGRAM «NATURAL DOCTOR»**

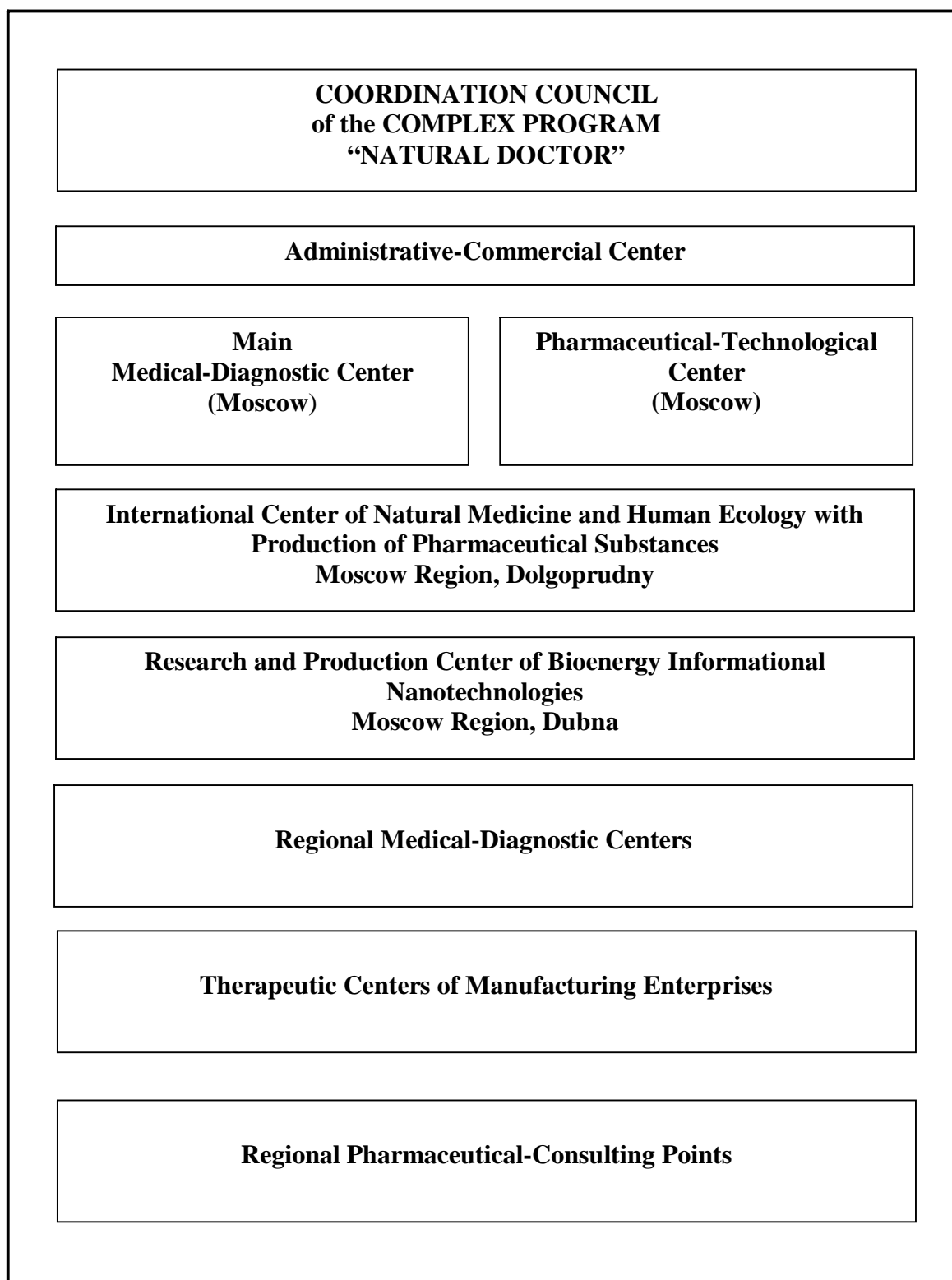
A multi-year practical experience in using usual pharmaceutical (allopathic-synthesized) medical products, together with energy informational (homeopathic) medical products and biologically active additives according to the medical techniques of the leading Russian developer and manufacturer of the given preparations - Open Joint Stock Company «Holding «EDAS» has provided for:

1. 20-25% reduction of treatment duration due to higher efficiency of treatment;
2. Decrease in display of the by-effects often arising under use of pharmacy-therapeutic means, due to regulating influence on organism of the homeopathic component of the medicamentous therapy and increase of functions of secretory organs, and also an opportunity of reduction of habitual therapeutic dozes of strong preparations at the background of positive dynamics of clinical displays;
3. 30-38 % decrease in the treatment cost due to reduction of terms and reduction of therapeutic dozes more expensive pharmacy-therapeutic means.

For the purpose of wide use of achievements of the OJSC «Holding «EDAS» in practical public health service under support of the Development Fund of Russia and the Government of Moscow Region (Regulation 351/25 dated 24.06.2004) a program «Natural Doctor» has been developed, which includes the following structures:

1. Administrative-commercial centre (Moscow)
2. Main medical-diagnostic center (Moscow) where complex (integrative) medical techniques and diagnostic systems are developed and improved.
3. Pharmaceutical-technological center (Moscow) in which the assortment of preparations and technologies are developed and improved.
4. International center of natural medicine and human ecology with manufacture of pharmaceutical substances (Moscow region, Dolgoprudny).
5. Research-and-production center of bioenergy informational nanotechnologies ( Moscow Region, Dubna).
6. Regional medical-diagnostic centers with organization of environment monitoring and corresponding adaptation of treatment techniques to the ecological conditions of the region.
7. Treatment-and-prophylactic centers of the industrial enterprises.
8. Regional pharmaceutical-consulting points where a doctor provides free consultations, and a complex of preparations in consistency with the diagrams of the integrative therapies is realized.

**CORPORATE STRUCTURE**  
**of the Research and Production Medical-Pharmaceutical Complex**  
**«NATURAL DOCTOR»**



**OPERATIONAL-FUNCTIONAL STRUCTURE OF THE OJSC “EDAS”  
(Management Company RPMPC “Natural Doctor”)**

<b>MEETING OF SHAREHOLDERS</b>							
<b>BOARD OF DIRECTORS</b>							
<b>PRESIDENT</b>							
Directorate for developments of bases	Training Directorate	Program-Analytical Directorate	Advertising-Marketing Directorate	Directorate for Environment Monitoring			
<b>ADMINISTRATION AND PERSONNEL CENTER</b>				<b>FINANCE AND ECONOMY CENTER</b>			
Administrative department	Legal department	Personnel department	Secretariat	Planning and pricing department	Finance department	Accounting department	Salary department
			Archive				
<b>COMMERCIAL CENTER</b>							
Commercial Departments				Pharmaceutical-Consulting Points			
<b>ASSORTMENT-CLINICAL CENTER</b>							
Clinical Studies	Technology Department	Normative Documents Department	Quality Control Department	Medical-Diagnostic Centers			
<b>PHARMACEUTICAL-TECHNOLOGICAL CENTER</b>							
Preparation of spirit and water	Production of external forms	Production of drops	Production of capsules	Production of pills	Production of ampoules		
<b>DELIVERY-TRANSPORTATION CENTER</b>							
Supply Dept.	Dept. for Production Arrangement	Auto transportation Dept.	<b>Printshop</b>				
			Car Repair Dept.	Order Dept.	Design Dept.	Packing Dept.	IRM Dept.
<b>PRODUCTION-WAREHOUSING CENTER</b>							
Warehouse of Completing Units				Warehouse of Finished Products			
<b>OPERATING-HOUSEHOLD CENTER</b>							
Engineering Dept.	Current Repair Dept.	Hotel Dept.	Dept. of landscaping and Site Finishing	Food Dept.	Fitness Center		

**LIST**  
**of objects of the Research and Industrial Medical-Pharmaceutical Complex**  
**«NATURAL DOCTOR»**

Location and Name of the Object	Total Area (thousand square meters)	Quantity	investment outlay (EUR mln)	Term of Delivery
Administrative-Commercial Center «Natural Doctor» Moscow	3,3	1	4,95	
Basic Medical-Diagnostic Center «Natural Doctor» Moscow	3,9	1	5,85	
Pharma-Technological Center Moscow	2,0	1	2,92	
International Center of Natural Medicine and Human Ecology with Production of Pharmaceutical Substances «Natural Doctor» Moscow Region, Dolgoprudny	14,9	1	20,40	
Research and Industrial Center of Bioenergy Informational Nanotechnologies Moscow Region, Dubna	15,0	1	20,20	
<b>CENTRAL FEDERAL DISTRICT</b>				
<b>Medical-Diagnostic Center</b>				
Voronezh Region Voronezh	2,0	1	2,1	
Moscow Moscow	2,0	1	2,1	
Yaroslavl Region Yaroslavl	2,0	1	2,1	
<b>Total:</b>		<b>3</b>	<b>6,3</b>	
<b>Pharmaceutical-Consulting Point</b>				
Belgorod Region Belgorod	0,17	1	0,15	
Bryansk Region Bryansk	0,17	1	0,15	
Vladimir Region Vladimir	0,17	1	0,15	
Voronezh Region Voronezh	0,17	4	0,6	
Ivanovo Region Ivanovo	0,17	1	0,15	
Kaluga Region Kaluga	0,17	1	0,15	
Kostroma Region Kostroma	0,17	1	0,15	
Kursk Region Kursk	0,17	1	0,15	
Lipetsk Region Lipetsk	0,17	1	0,15	
Moscow Moscow	0,17	10	1,5	
Moscow region	0,17	5	0,75	
Orel region Orel	0,17	1	0,15	
Ryazan Region Ryazan	0,17	2	0,3	
Smolensk Region Smolensk	0,17	1	0,15	
Tambov Region Tambov	0,17	1	0,15	
Tver Region Tver	0,17	1	0,15	
Tula Region Tula	0,17	2	0,3	
Yaroslavl Region Yaroslavl	0,17	3	0,45	
<b>Total:</b>		<b>38</b>	<b>5,7</b>	
<b>NORTH - WEST FEDERAL DISTRICT</b>				
<b>Medical-Diagnostic Center</b>				
Kaliningrad Region Kaliningrad (including resorts)	2,0	1	2,1	

St. Petersburg St. Petersburg	2,0	1	2,1	
<b>Total:</b>		<b>2</b>	<b>4,2</b>	
<b>Pharmaceutical-consulting point</b>				
Republic of Karelia Petrozavodsk	0,17	1	0,15	
Republic of Komi Syktyvkar	0,17	1	0,15	
Arkhangelsk Region Arkhangelsk	0,17	1	0,15	
Vologda Region Vologda	0,17	1	0,15	
Kaliningrad Region Kaliningrad (including resorts)	0,17	3	0,45	
St. Petersburg St. Petersburg	0,17	5	0,75	
Leningradsky Region	0,17	3	0,45	
Murmansk Region Murmansk	0,17	1	0,15	
Novgorod Region Veliky Novgorod	0,17	1	0,15	
Pskov Region Pskov	0,17	1	0,15	
<b>Total:</b>		<b>18</b>	<b>2,7</b>	
<b>VOLGA REGION FEDERAL DISTRICT</b>				
<b>Medical-Diagnostic Center</b>				
Republic of Bashkortostan Ufa	2,0		2,1	
Republic of Tatarstan Kazan	2,0		2,1	
Nizhny Novgorod Region Nizhny Novgorod	2,0	1	2,1	
Perm Region Perm	2,0		2,1	
Samara Region Samara	2,0	1	2,1	
<b>Total:</b>		<b>5</b>	<b>10,5</b>	
<b>Pharmaceutical-consulting point</b>				
Republic of Bashkortostan Ufa	0,17	2	0,3	
Republic of Mari El Ioshkar Ola	0,17	1	0,15	
Republic of Mordovia Saransk	0,17	1	0,15	
Republic of Tatarstan Kazan	0,17	3	0,45	
Udmurt Republic Izhevsk	0,17	2	0,3	
Chuvash Republic Cheboksary	0,17	2	0,3	
Kirov Region Kirov	0,17	2	0,3	
Nizhny Novgorod Region Nizhny Novgorod	0,17	4	0,6	
Orenburg Region Orenburg	0,17	2	0,3	
Penza Region Penza	0,17	2	0,3	
Perm Region Perm	0,17	2	0,3	

Samara Region Samara	0,17	3	0,45	
Saratov Region Saratov	0,17	2	0,3	
Ulyanovsk Region Ulyanovsk	0,17	2	0,3	
<b>Total:</b>		<b>30</b>	<b>4,5</b>	
<b>SOUTH FEDERAL DISTRICT</b>				
<b>Medical-Diagnostic Center</b>				
Krasnodar Territory Krasnodar (including resorts)	2,0	1	2,1	
Astrakhan Region Astrakhan	2,0	1	2,1	
Volgograd Region Volgograd	2,0	1	2,1	
Rostov Region Rostov-On-Don	2,0	1	2,1	
<b>Total:</b>		<b>4</b>	<b>8,4</b>	
<b>Pharmaceutical-consulting point</b>				
Republic of Adygei Maikop	0,17	1	0,15	
Republic of Dagestan Makhachkala	0,17	2	0,3	
Republic of Ingushetia Nazran	0,17	1	0,15	
Kabardino-Balkarian Republic Nalchik	0,17	1	0,15	
Republic of Kalmykia Elista	0,17	1	0,15	
Karachai-Cherkess Republic Cherkessk	0,17	1	0,15	
Republic of North Ossetia-Alania Vladikavkaz	0,17	1	0,15	
Chechen Republic Grozny	0,17	1	0,15	
Krasnodar Territory Krasnodar (including resorts)	0,17	5	0,75	
Stavropol Territory Stavropol (including resorts)	0,17	2	0,3	
Astrakhan Region Astrakhan	0,17	2	0,3	
Volgograd Region Volgograd	0,17	4	0,6	
Rostov Region Rostov-On-Don	0,17	4	0,6	
<b>Total:</b>		<b>26</b>	<b>3,9</b>	
<b>URAL FEDERAL DISTRICT</b>				
<b>Medical-Diagnostic Center</b>				
Sverdlovsk Region Ekaterinburg	2,0	1	2,1	
Chelyabinsk Region Chelyabinsk	2,0	1	2,1	
<b>Total:</b>		<b>2</b>	<b>4,2</b>	
<b>Pharmaceutical-consulting point</b>				
Kurgan Region Kurgan	0,17	1	0,15	
Sverdlovsk Region Ekaterinburg	0,17	<b>4</b>	0,6	



Tyumen Region Tyumen	0,17	2	0,3	
Chelyabinsk Region Chelyabinsk	0,17	2	0,3	
<b>Total:</b>		<b>9</b>	<b>135</b>	
<b>SIBERIAN FEDERAL DISTRICT</b>				
<b>Medical-Diagnostic Center</b>				
Krasnoyarsk Territory Krasnoyarsk	2,0	1	2,1	
Irkutsk Region Irkutsk	2,0	1	2,1	
Novosibirsk Region Novosibirsk	2,0	1	2,1	
Omsk Region Omsk	2,0	1	2,1	
<b>Total</b>		<b>4</b>	<b>8,4</b>	
<b>Pharmaceutical-consulting point</b>				
Republic of Altai Gorno-Altai	0,17	1	0,15	
Republic of Buryatia Ulan-Ude	0,17	1	0,15	
Republic of Tuva Kyzyl	0,17	1	0,15	
Khakass Republic Abakan	0,17	1	0,15	
Altai Territory Barnaul	0,17	2	0,3	
Krasnoyarsk Territory Krasnoyarsk	0,17	3	0,45	
Irkutsk Region Irkutsk	0,17	2	0,3	
Kemerovo Region Kemerovo	0,17	2	0,3	
Novosibirsk Region Novosibirsk	0,17	4	0,6	
Omsk Region Omsk	0,17	3	0,45	
Tomsk Region Tomsk	0,17	2	0,03	
Chita Region Chita	0,17	1	0,15	
<b>Total:</b>		<b>22</b>	<b>3,3</b>	
<b>FAR EAST FEDERAL DISTRICT</b>				
<b>Medical-Diagnostic Center</b>				
Primorye Territory Vladivostok	2,0	1	2,1	
Khabarovsk Territory Khabarovsk	2,0	1	2,1	
<b>Total:</b>		<b>2</b>	<b>4,2</b>	
<b>Pharmaceutical-consulting point</b>				
Republic of Sakha (Yakutia) Yakutsk	0,17	1	0,15	
Primorye Territory Vladivostok	0,17	1	0,15	
Khabarovsk Territory Khabarovsk	0,17	1	0,15	
Amur Region Blagoveschensk	0,17	1	0,15	
Kamchatka Region Petropavlovsk-Kamchatsky	0,17	1	0,15	
Magadan Region Magadan	0,17	1	0,15	
Sakhalin Region Yuzhno-Sakhalinsk	0,17	1	0,15	
<b>Total:</b>		<b>7</b>	<b>1,05</b>	
<b>Total for 7 Federal Districts:</b>				
<b>MDC</b>		<b>22</b>	<b>46,2</b>	
<b>PCP</b>		<b>150</b>	<b>22,5</b>	
<b>TOTAL (for all objects)</b>		<b>178</b>	<b>123,02</b>	

**FEASIBILITY STUDY FOR INVESTMENTS  
IN DEVELOPMENT OF PRODUCTION OF THE  
RESEARCH-PRODUCTION  
MEDICAL-PHARMACEUTICAL COMPLEX  
“NATURAL DOCTOR”**

## **RESUME**

The integrative treatment methods with use of homeopathy become an integral part of the public health services in Russia. In some cases the homeopathy treatment is a method of a choice. Also it is connected with the fact that in recent years the problem of the by-effects becomes aggravating under use of allopathic medicines. Homeopathic preparations do not cause side effect, and their efficiency for many diseases — a fact in evidence. In this connection the development of the homeopathic market becomes .a special value. However, in Russia there is no manufacture of homeopathic preparations in such medicinal forms, as injections, tablets, gels, nasal sprays, pills, eye drops. Development of manufacture of these medicinal forms of homeopathic means is a perspective direction in the public health system in Russia.

### **Cost and Financing Sources**

The project cost equals to about EUR 123.02 million which are supposed to be obtained as a loan under 5-6 % annual. The initial stage of the project will be paid at own expense. The general term of the project realization makes 5-7 years.

### **Global Preconditions of the Demand**

In the world market of pharmaceutical production the homeopathic preparations occupy quite certain, stable position tending to growth. The analysis of the European homeopathic preparations market testifies to it. It was carried out by the European Committee on Homeopathy (ECH). In 1995 its volume equaled to 1344 million ecu. This amount is mostly due to contributions made by Germany (36 %) and France (33 %). Homeopathic preparations are used by 32 % of Frenchmen, 31 % of Dutchs, 16 % of British. In Great Britain the volume of the homeopathic preparations market annually increases by 15 %.

The OJSC «Holding «EDAS», a management company of the RPMPC «NATURAL DOCTOR», has scientific and technical developments, which allow to expand assortment due to new forms of medical products (MP) – similar to the imported MP, which is a least risky operation. The decrease in risks of project realization is promoted by participation in the project of the company «PHARMSTROY GROUP» as general designer and general contractor.

PHARMSTROY GROUP creates «on a turn-key basis» pharmaceutical enterprises, corresponding to the up-to-date requirements of the qualitative manufacture. The wide experience of the companies entering the «PHARMSTROY GROUP» in creation of up-to-date pharmaceutical enterprises can serve as a guarantee of successful project realization. Competence of the PHARMSTROY GROUP experts allows harmoniously observe the international and Russian standards of designing, construction, equipment, validation and starting up-adjustment of pharmaceutical enterprises and public health objects. PHARMSTROY GROUP takes part in a number of projects for designing and construction in Russia of pharmaceutical and cosmetics enterprises to the orders of foreign companies.

**PHARMSTROY GROUP** is an international Russian-Belgian-Korean enterprise including:

**1. PSP « Chysty Vozdukh»**

- Design bureau
- Technological group
- Mobile Construction Department comprising 150 people,
- Factory for manufacture of air strainers (from rough clearing up to NERA)
- Medstroy Department
- Department of pharmaceutical equipment

**2. «PHARMSTROY-RK»**, the Russian-South Korean enterprise for production and assembling of structures for “clean rooms” and refrigerating chambers.

**3. The laboratory «MEDPHARMTEST»**, the Russian-Belgian enterprise (jointly with the validation company I.C.C.I.) carries out a full cycle of validation of DQ, IQ, OQ, PQ, PV and subsequent realization.

**5. PHARMSTROY GROUP- the Training centre** prepares pharmaceutical enterprises and their employees for work according to the GMP rules.

## **MARKET ANALYSIS**

For more than two hundred years period of its existence the homeopathy has accumulated large positive experience in treatment of many diseases. Therefore it is actively extending its presence on the Russian pharmaceutical market and medical services market.

High demand for homeopathic help has caused development of this method of treatment, that for the first time was reflected in the order of the RSFSR Ministry of Health dated 1 July, 1991 No. 115 « On development of the homeopathic method in medical practice and improvement of organization of maintenance of the population with homeopathic medical products», and also in the order of the Ministry of Health and the medical industry of the Russian Federation dated 29 November, 1995 No. 335 «On use of the homeopathic method in practical public health services».

The interest in homeopathy in recent years has been also caused by the increasing problem of by-effects under application of allopathic medical products. In this connection new methods of preventive therapy and improvements, described as high effective with no side effects, wide availability, simplicity and convenience in use, an individualization approaches are of special actuality. The homeopathic method satisfies these requirements.

In 1995 Russian manufacturers started producing complex homeopathic preparations under time specifications (TS). In spite of the tendency to reduction of quantity of registered homeopathic preparations, the growth rates of finished medical products manufactured under TS, remain high. The greatest number of preparations was authorized for manufacture under TS in 1998 (Fig. 1, 2).

Figure 1. Ratio of quantity of complex homeopathic medicines registered in the Ministry of Health of the Russian Federation and manufactured under TS



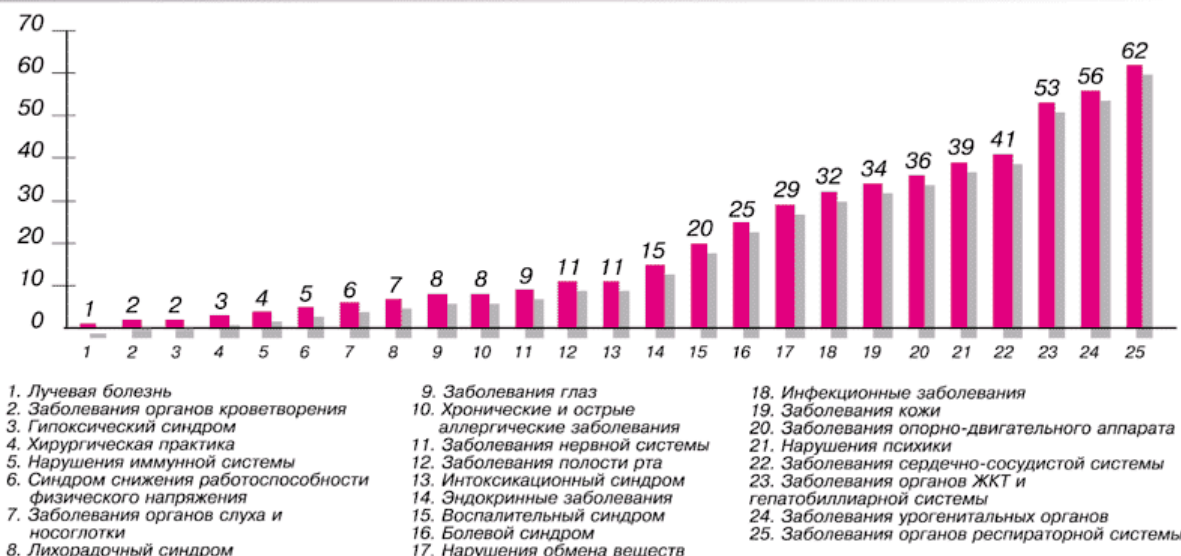
Figure 2. Structure of the Russian market of complex homeopathic pharmaceuticals (as of 01.11.99)

The first registered pharmaceuticals were produced by the International Concern «EDAS» and the NPF «Materia Medika». The Moscow pharmaceutical factory is the oldest manufacturer of such homeopathic medical products as Ledum, Calendula, Arnica, Hypericum, opodeldocs and suppositories. The company «EDAS» manufactures 91 names of complex homeopathic medical products in the form of granules, drops, ointments, opodeldocs, syrups, oils. All homeopathic medical products are included in the federal license for manufacture, and pass state control.

Among foreign companies dealing with homeopathic preparations and realization on the Russian market are «Biologische Artcaimittel Heel GmbH» (Germany), producing about 50 homeopathic medical products, including injections. The preparations of such firms as «Laboratory Buaron» (France), «German Homeopathic Union» (Germany), «Bean Walsh Enterprises, Inc.» (USA), «Rihard Bittner» (Austria) are widely known.

Despite of sharp deterioration of financial and economic conditions after the financial crisis of 1998, the Russian market of homeopathic medical products continued to develop. In the State Register of medical products of Russia there are 157 complex and 1192 unicomponent homeopathic preparations. The quantity of substances — tinctures matrix, registered by the Ministry of Health, also increased almost twice and reached 155 names against 81 in 1998, among them — 3 Russian manufactures. The number of complex homeopathic preparations, which are produced according to TS, increased by more than three times compared to the middle of 1998 and now makes 210 preparations.

**АССОРТИМЕНТ ГОМЕОПАТИЧЕСКИХ СРЕДСТВ, предназначенных для лечения наиболее распространенных заболеваний**



Источник: МЗ РФ

Figure 3. Assortment of Homeopathic Products intended for treatment of more spread diseases

The analysis of the homeopathic medicines assortment in 197 Moscow drugstores has shown, that in the market there are approximately 85% of the preparations resolved to application. And their assortment is wide enough — there are means for treatment of majority of widespread diseases. The medicines applied at diseases respiratory organs (fig. 3) are most widely presented. And it is quite explainable: according to Department of Sanitary-and-Epidemiologic Supervision, the diseases of respiratory organs make 35-45 % in the general structure of diseases of the population. The assortment of the homeopathic preparations on the market of medical products in Russia, precisely follows this tendency. Expansion of the assortment due to development of preparations for treatment of diseases of immune system, bracing actions, ophthalmologic, antiallergic and others is quite probable.

Thus, now the market of homeopathic preparations is in the progress stage. The Russian preparations dominate in it. **However in Russia there is no manufacture of pharmaceutical substances and homeopathic preparations in such medicinal forms as injections, gels, nasal sprays, eye drops. Arrangement of manufacture of these pharmaceutical substances and other medicinal forms is a perspective area in development of the Russian pharmaceutical industry.**

**Creation of the network of medical-diagnostic centers and pharmaceutical-consulting points for successful expansion of zones of homeopathy and integrative active application is also necessary.**

## Demand Forecast

### Internal Market

The sales volume of homeopathic means in the Russian market makes 2-3 % of the general market of medical products. In money terms it makes about EUR 200 million a year. EUR 150 million a year come on the Russian companies. The basic opportunities for the homeopathic Russian market growth depends on manufacture and sale of finished forms, which would not emphasize their difference from the allopathic preparations. Organization of manufacture of such forms as injections, gels, nasal sprays, eye drops will allow to increase the sales share by total of 4-6 %. Thus, the struggle takes place for the share of EUR 100-200 million a year.

Now the OJSC «Holding «EDAS» is a leading Russian enterprise in the assortment and sales volumes. Creation of the International Center of Natural Medicine and human ecology «NATURAL DOCTOR» (Moscow Region, Dolgoprudny), including manufacture of pharmaceutical substances and finished medicinal forms, based on developments of the OJSC «Holding «EDAS», will allow to increase the sales volume up to EUR 90-95 million a year, with forecasted growth rate of 15-20 % a year.

The backlog demand for medical and consulting services equals to EUR 70 million a year in Russia now. It is restrained due to absence of medical-consulting centers of certain level. The latent reserves make from 50 % up to 100 %. Creation of the network of 22 Medical-Diagnostic Centers and networks of 150 Pharmaceutical-Consulting points «NATURAL DOCTOR» in the Russian territory will allow to receive annual income of more than EUR 45,0 million .

### **Brand EDAS – NATURAL DOCTOR**

The brand EDAS is well recognized and is present at many drugstores of the Russian Federation. The wide range of preparations of the company «EDAS» allows to find any homeopathic product for a customer. The brand «EDAS» is a sign of MP quality and availability.

### **Promotion Measures and Marketing Strategy**

The marketing strategy of the OJSC «Holding «EDAS» has risen onto a new quality level due to the completion of basic development and researches integrative procedures of treatment and preventive measures. Combined use of allopathic (synthesized) and homeopathic (energy informational) medicines in the integrative procedures together with microelement-vitamin complexes allows to increase efficiency of treatment , which is an advantage of a complex use of the integrative methods. Thus, besides the commercial sector the production of the OJSC «Holding «EDAS» has real prospects to enter the hospital sector of the Russian Federation public health system.

Successful experience in promotion of natural preparations, skill, readiness to operatively promote natural and nanopreparations and to adjust marketing strategy in view of the processes arising on the pharmaceutical market and on the market of medical equipment allow to start realization of the offered project.

### **Chosen Market Segment, its Volume and Dynamics, Target Group of Consumers and Risks**

The chosen market segment - complex (integrative) medicine with use of allopathic and homeopathic preparations, and also microelement-vitamin complexes.

The sales volume of homeopathic preparations in the Russian pharmaceutical market constantly grows. Considering, that the relative density of the given preparations in the German pharmaceutical market makes 10 % and tends towards growing like in other European countries (France, Holland, Great Britain) it is possible to assume, that within 5-7 years on the Russian pharmaceutical market the given parameters will reach the Central European ones. Thus, an active growth of the homeopathic market is expected, and treatment with these medicines will create a great demand for the offered microelectronic medical-diagnostic systems with software, developed by the OJSC «Holding «EDAS».

The target group of consumers of homeopathic preparations and zoned microelement-vitamin complexes includes citizens, most women, children, old people.

The target group of consumers of express-diagnostics devices and medical-diagnostic complexes - polyclinics, medical centers, sanatoriums, hospitals, medical cabinets at organizations, establishments, enterprises and private practicing (including family) doctors, etc.

The target group of consumers of synthesized preparations based on nanosubstances - treatment-and-prophylactic establishments, including the population working with preferential categories.

In determination of a marketing strategy the essential role is played by correct estimation of possible risks connected with realization of the project, and development of the measures purposed at reduction of their negative consequences. The basic risk groups, which can influence realization of the given program, are listed below

- risks connected with competition;
- risks connected with absence of demand;
- political and legislative risks;
- currency risks.

### **Market Risks**

The market risks are those connected with a possibility of demand variation or an offer of the given goods on the market. Reduction in demand for the given goods or increase of the offer for similar goods from competitors can cause reduction of a goods price and reduction of realization volumes.

The competitors are both domestic developers of similar production and foreign suppliers onto the Russian market.

The risks connected with competition include possible occurrence in the market of production, which would look essentially more effective or cheaper than those offered by the OJSC «Holding «EDAS».

The information on preparations made today all over the world and the level of the world prices for them allows to state, that in the middle-term prospect for the Russian market nanopreparations will appear, which would be cheaper and more effective than those offered by the OJSC «Holding «EDAS».

The middle-term prospect should consider a possibility of occurrence in the Russian pharmaceutical market of new, original, more effective preparations of the western manufacture. However, the cost of the new original western preparations is so high now (3-10 time above the cost of generics), that even in future they will not be competitive to the preparations of the OJSC «Holding «EDAS» by price parameters.

A threat of development and beginning of manufacturing of similar preparations by the Russian companies is very low. The level of perspective financing of new developments in the domestic pharmaceutical industry remains low. A favorable position is occupied by the OJSC «Holding «EDAS» which has already necessary operating developments and is at the stage of the pilot production creation.

Considering a low level of financing of the domestic pharmaceutical science as a whole, occurrence of production which could compete to the production offered by the OJSC «Holding «EDAS» is practically impossible.

### **Political and Legislative Risks**

A change of the political situation and legislation in Russia or abroad can affect the project realization since some preparations will use foreign manufacture. In the given situation it is possible to refuse from development and manufacture of some kinds of production or to



reorientate existing capacities to development and manufacture of other production (in particular, other medical products) which will appear less affected by political or legislative changes.

### **Currency Risks**

In spite of the fact that under manufacturing the import components are used, their share in final cost of the production makes no more than 10 %. In the course of production completion and its introduction this share will decrease since transition to use of domestic components and semifinished items is planned. Thus, the decrease in the ruble exchange rate in relation to the dollar will not have a significant influence on the sales level of production in the Russian territories. Under a fall of the ruble exchange rate, the price for the production in the dollar term will decrease and become more attractive for foreign customers .

### **High Competitiveness**

The given project is based on the concept of the up-to-date research and industrial production, one of the first in Russia, capable to create production competitive not only in the country, but also on the world pharmaceutical market. The chosen nomenclature is in those segments of the market where a precise tendency to increase in demand is forecasted and where there is significant deficiency now. The offered production by the price-quality ratio practically has no analogues.

### **Considerable Contribution in the Development of the National Medical Industry**

The present project is purposed at development of the national medical industry and maintenance of the public health services with high quality products.

### **Flexibility of Production and Possibility of Fast Respond to Change of the Demand**

The production technology is rather universal, which allows to operatively respond to possible changes of the market demand.

### **High Level of Project Preparation**

The OJSC «Holding «EDAS» has been engaged in the project for the last five years with attraction of experts and specialists of other organizations. During this time the market researches and designing were carried out, optimum variants of up-to-date research establishment with industrial production were selected, etc. The Project is ready for practical realization.

### **Potential Customer and Planned Sales Volumes:**

Potential customers of products of the OJSC «Holding «EDAS» are citizens, state and private treatment-and-prophylactic establishments, as well as privately practicing doctors.

**Preliminary Production Program:**

No.	GMR Form	Number of names	Packing, No.		Annual production, million packs
1	Tablets	30	Blister	60 pcs.	6,5
2	Drops	30	Flask	25 ml	3,5
3	Oils	2	Flask	25 ml.	1,5
4	Gels	2	Tuba	30 ml	1,0
5	Opodeldocs	2	Flask	100 ml	1,0
6	Suppositories	4	Blister	30 pcs.	2,0
7	Injections	5	Ampoules	10 pcs.	3,0
8	Pills	4	Cupping glass	100 pcs.	1,5
9	Capsules	8	Cupping glass	100 pcs.	5.0
	TOTAL				25,0

**Salaries** An average Salary of Workers is EUR 450 as of the starting time.

**Equipment. Cost.**

The complexes of technological and engineering equipment will be from leading German, Italian, South-Korean companies. A preliminary cost of the technological and engineering equipment is about EUR 35 million.

**Development Plan for the Medical-Diagnostic Centers Network «Natural Doctor»**

The network of medical-diagnostic centers (MDC) «Natural Doctor» should provide wide introduction of homeopathic methods in Russia. Each center incorporates a medical-diagnostic center, a drugstore, chemist's manufacture of homeopathic medical products, a chemist's warehouse.

Every Medical-Diagnostic Center «Natural Doctor» supports from 7 up to 10 nearby pharmacy-consulting points materially and informationally. In the zone of one medical-diagnostic center there should live from 300 000 to 1 000 000 people. Such distribution will provide a correct load on the Medical-Diagnostic Center and rational investments.

The material and informational streams in the network of the MDC «Natural Doctor» are consolidated in the Main Medical-Diagnostic Center in Moscow. Gathering and processing of information from the regional MDC will allow to optimize trading stocks per nomenclature, reduce them per volume, cut expenses under manufacture of preparations. Monitoring of demand for separate preparations will enable to make medicines by inquiry of attending physicians.

Estimation of the preparations effectiveness will allow to choose the best schemes of treatment, and create a database of patients, diseases, methods of treatment resulting in leadership of the «Natural Doctor» system on the Russian market.

The program provides for creation in the nearest five years of 22 MDC «Natural Doctor». The centers will primly be created in large cities with the population of more than 900 thousand people.

**Short Description of a Typical Medical-Diagnostic Center «Natural Doctor»**

The medical-diagnostic centers «Natural Doctor» are created for:

- Rendering of services for diagnostics of diseases;
- Consultations and prescription of homeopathic medical products and medical-improving procedures;
- Carrying out of consultations and control over the course of treatment;
- Physiotherapeutic, ozone therapeutic procedures;

- Services on cosmetology with application of homeopathic and phyto-preparations;
- Production of some homeopathic medical products in a pharmacy production office;
- Sale of homeopathic and allopathic medical products;
- Warehousing of homeopathic raw material and finished medical products.

The MDC personnel is employed with a guarantee of paid training in necessary specialities and equals to 50-60 people, including junior medical personnel and technicians.

**The medical-diagnostic centers** consist of 22 cabinets with area of 20-25 m<sup>2</sup> each:

- Cabinets of primary examination and checkups, including ultrasonic investigation
- Cabinets of homoeopaths;
- Procedural cabinets, including physiotherapy, ozone therapy, cosmetology;

Most of the cabinets are located on the building ground floor. Some cabinets, including cosmetology, ozone therapy and offices are on the second floor.

**Drugstore.** The drugstore is in the center hall on the ground floor and is connected with the warehouse and technical lifts to the second and third floors.

**The pharmaceutical production** of homeopathic preparations from centrally delivered raw material is located on the second and third floors of the center. The manufacture includes granules, drops, ointments, gels, oils and opodeldocs .

**The pharmaceutical warehouse** is located on the third floor of the center. The pharmaceutical warehouse should store a monthly stock of the most running preparations in the form of «angro» , bi-monthly stock of matrix tinctures for manufacture of medical products, a monthly stock of allopathic medical products for combined schemes of treatment.

The pharmaceutical premises of the warehouse should include:

- 4 premises for storage of raw material and production - 80 m<sup>2</sup>;
- Sanitary-household premises
- Expedition
- 2 cabinets.

The stock of containers, packing and application instructions are stored in the rented areas.

The ventilation systems are on the technical floor.

### **Short Description of the «Natural Doctor» Pharmaceutical-consulting point**

The network of the «Natural Doctor» pharmaceutical-consulting points should promote a complex of preparations for realization of integrative schemes of treatment.

Every «Natural Doctor» pharmaceutical-consulting point is materially and informationally supported by regional MDC or Main MDC (Moscow). In the zone of one pharmaceutical-consulting point there should be 100 000-150000 people. Such distribution will provide a correct loading on the pharmaceutical-consulting point and appropriate investments.

### **Requirements to Premises of the Typical Pharmaceutical-consulting point «Natural Doctor»**

The point includes a trading, warehouse and a consulting zone.

The area of the point should equal to 9 m<sup>2</sup> (one seller-adviser) to 12m<sup>2</sup> (a seller and an adviser).

The area of the show-window should be 4-4,5 m<sup>2</sup>.

A typical pharmaceutical-consulting point should store 10-15-day stock of medical products, depending on remoteness of the warehouse.

## **Administrative-Commercial Center of «Natural Doctor» (Moscow)**

Preliminary offers for reconstruction of the building with a superstructure for accommodation of an administrative-commercial centre with industrial drugstore OJSC «Holding «EDAS» at the address: Moscow, Bolshaya Serpukhovskaya street, 10/9 (CAO) are developed based on the materials of «Historical-architectural researches of home ownership» (CIGI, November, 2003) and high characteristics requirements to the object, included in the «Visually-landscape analysis» (CIGI, 2003), for a preliminary development of the complex architectural-planning concepts and determination of basic technical and economic parameters.

The proposed home ownership is located in Zamoskvorechye, to the south of Sadovoye Koltso. The east and west borders of the trapezoidal site in plan enter into the Streets of Bolshaya Serpukhovskaya and Liusinovskaya (former Malaya Serpukhovskaya). The adjoining buildings of the quarter refer to the old Moscow low-storied morphotype with a typical height of 2-4 floors and are inside of large security zones of the historical and cultural objects. According to their status the structures located on the construction site refer to ordinary elements of the historical and city planning environment. Old houses 10 and 9, the city manor, have been preserved. The lay-out and architectural decoration of facades of the structures were lost as a result of the Soviet period reconstruction.

Considering the restrictions imposed by GUOP on height of reconstructed buildings (11 m - up to the eaves and 14 m - up to the "chair" by variant B), rather high degree of safety of adjoining historical buildings and satisfactory technical conditions of the structures, the present project offers regeneration of possession 10/9 with preservation of historical characteristics of the complex, reconstruction of facades of the XIX century (with their partial optimization) and construction of the domestic part of the possession at the place of invaluable constructions. The maximal height of buildings in the central part will make 4 floors (a little more than 14 meters without a glass lantern). The facade of house 10 is accepted for the basis of the complex facade in Liusinovskaya Street. The facade of house 9 - in Bolshaya Serpukhovskaya Street.

Under construction of the new complex at the site limited from two sides (from north and south) with other estates, it is necessary to have dead walls (firewalls) in their direction without window openings. The natural illumination in the reconstructed complex should be through windows in the external walls facing the street and the light apertures in the roof. This approach corresponds to the ethical tradition accepted in town planning and will allow to freely carry out architecturally spatial developments of neighboring possessions in the future.

The complex of the administrative-commercial centre after reconstruction will include a Medical-Diagnostic Center with an industrial drugstore, office premises and underground parking place:

- Floor 1: two entrance groups – to the Medical-Diagnostic Center (from Liusinovskaya Street); a drugstore with ancillary facilities and a cabinet of the doctor-adviser; medical cabinets of primary reception of patients

and a registry; a conference hall for 70 seats; a recreational hall, which is a foyer of the conference hall uniting the entrance groups of the complex; bathrooms; security facilities with a dispatching office; the entrance to the underground parking.

- Floor 2: basic premises of the medical-pharmaceutical center (cabinets of doctors, procedural cabinets ; equipment rooms, waiting rooms).
- Floor 3: commercial structures of the complex (studies, cabinets of heads of divisions, negotiation rooms, a two-light winter garden, a buffet of 16 seats for employees, pantries, a server room, an archive room, a bathroom, etc.).
- Floor 4: executive suits, secretariat with indispensable auxiliary facilities; a large room for negotiations, a top circle of two-light winter garden illuminated with a skylight dome; other facilities.
- The cellar: an underground parking place for 6 automobiles (with a sprinkler system of firefighting) with a special lift for cars entry; technical premises (vent chambers and air-conditioning, a refrigerating station, a heating unit, a water-measured unit, a pump station and reserve tanks, electric panel board, etc.).

In the building there are two evacuation stairs provided: type L1 (with illumination through windows in the external wall) and type L2 (with illumination through the light lantern in the roof). For rise to floors there is a passenger-and-freight lift by 630 kg capacity. Connection with the underground parking is intended via two isolated staircases (of type N2) with air overpressure.

Before reconstruction of the existing buildings and beginning of construction of the complex central part it is necessary to strengthen the underground part of the existing structures and re-deepen the wall faces from the yard side. Many other constructive elements of the buildings should be strengthened (piers, crosspieces, beams, overlapping). Some structures should be replaced (wall elements, ladders, fragments of overlapping, the roof, partitions, equipment, etc.).

Constructive solutions: the walls - brick and monolithic Ferro-concrete; the framework elements - monolithic Ferro-concrete; the partitions - brick and drywall; the roof – sloping, combined; the window blocks - wooden with threefold glass; the doors - wooden; the ladders and roof protections - metal.

The external and internal furnish - high quality.

The center structure, constructive solutions in whole and in part, the structure of facilities, parameters of facilities, the constructive and engineering solutions adopted for the present project (Preliminary offers) may change according to requirements of standards and rules and under recommendations of the approving bodies.

## **BRIEF TECHNICAL AND ECONOMIC PARAMETERS:**

1. Building area .....838 m<sup>2</sup>

2. Total building area.....	3300.0 m2 (with preservation of the existing building)
Including that of: the superstructure part.....	2840.0 m2
the underground part.....	460.0 m2
Total building area .....	3580.0 m2 (without preservation of the existing building)
Including that of: the superstructure part.....	2840.0 m2
the underground part.....	740.0 m2
3. Projected area.....	1947 m2
Architectural volume.....	12100.0 m3 (with preservation of the existing building)
Including that of: the superstructure part.....	1380.0 m3
the underground part .....	10720.0 m3
5. Number of floors.....	4 floors + basement
6. Parking capacity ( as per the design).....	6 cars ( in the underground garage) + 6 cars ( at the above-ground parking place)
Parking capacity (rated) .....	27 cars

## **Main Medical-Diagnostic Center «Natural Doctor» (Moscow)**

The basic Medical-Diagnostic Center «Natural Doctor» (Moscow) is basis for development and perfection of the medical and diagnostic methods with subsequent introduction of industrial enterprises into the Regional Medical-Diagnostic Centers and prophylactic centers.

Besides the cabinets of consulting-diagnostic and medical prophylactic services in the given building there is an Industrial Drugstore which provides medicines for the clients of the medical-diagnostic center.

Similar medical-diagnostic centers are created in regions of the Russian Federation.

### **BRIEF TECHNICAL AND ECONOMIC PARAMETERS:**

1. Construction area .....	618 m2
2. Total building area .....	3900 m2
3. Rated building area .....	3120 m2
4. Architectural volume.....	14300 m3
5. Number of floors.....	4 floors+ basement

6. Parking capacity..... 20 cars ( in the underground garage) + 20 cars ( at the above-ground parking)

### **Pharmaceutical-Technological Center “Natural Doctor” (Moscow)**

Pharmaceutical-Technological Center RPMPC “Natural Doctor” (Moscow) has been designed in 5-floor reconstructed building. The architectural solutions are partially predetermined by a layout and facades of the existing 3-floor building based on the town-planning situation and functional purpose. The superstructure of 2 more floors and re-planning of "old" floors have allowed to place skilled pharmaceutical manufacture, as well as technological laboratories and a normative documentation department.

Furnish of facades preserves the shape of the existing building with red brick walls with a decor and addition of new superstructure forms in the attached part of the building.

Research-and-production laboratories are located on the floors 1,2,3 and 5 as follows:

Floor 1 - sugar grits (pills);

Floor 2 - homeopathic ointments, opodeldocs, syrups;

Floor 3 - homeopathic drops, oils, granules;

Floor 5 - cleared water.

On the 1st floor there are warehouses of auxiliary materials, a wardrobe, a mechanical workshop, a dining room.

On 4-th floor there is a quality control department , a normative documentation department , a department of homeopathic technologies, a spirit reception premise .

Improvement and gardening of the site within the limits of the allocated and adjoining territory - asphalt covering, the area of gardening - 0,003 Ha.

Total area of premises – 2000.0 m2.

### **International Center of Natural Medicine and Human Ecology with Production of Pharmaceutical Substances «Natural Doctor» (Moscow Region , Dolgoprudny)**

The international center of natural medicine and human ecology with production of pharmaceutical substances (hereinafter – the Center) is located in the city of Dolgoprudny in Moscow Region at the entry to the city from Dmitrovskoe Shosse.

The center includes:

- an administrative and industrial warehouse building - multipurpose (administrative, industrial and warehouse);
- a laboratory-industrial building;
- a medical-commercial and fitness center;

- a hostel with a parking place consisting of three buildings for residing employees (in the perspective);
- independent constructions of life-support: a boiler, artesian chink, clearing constructions;
- a transport courtyard and open parking places.

In the Center there are manufactures of allopathic and homeopathic substances and finished medicinal forms( tablets, capsules, ampoules, drops, oils, ointments). The construction of the Center and medicines technology are projected according to the international norms "GMP". One-replaceable productivity of pharmaceutical manufacture - up to 25 mln preparations packs in a year.

The offer includes organization of recreational grounds on the roof of the industrial building. There is a winter garden and a greenhouse on the top floor

Use of new building technologies and materials allows to add a modern image to the complex.

All buildings and constructions of the Center are located on the site according to normative sanitary and firefighting regulations. There are fountains and other small architectural forms in front of the buildings . The site is being improved and planted.

### **Basic Technical and Economic Parameters of the Center**

Site area	2.15 Ha
Floors	5 maximum
Total building area	12430 m2
Building density	58%
Personnel	500 people
Area of the administrative building	3652 m2
Parking places	74 cars

### **Basic Technical and Economic Parameters of the Center Buildings**

No.	Name of buildings	Total area, m2	Total structural volume, m3
1.	Administrative and Production Warehousing Building	12800	63700
2.	Laboratory-Production Building	2140	11320
	<b>TOTAL:</b>	14940	75020



# **RESEARCH AND PRODUCTION CENTER OF BIOENERGY INFORMATIONAL NANOTECHNOLOGIES (Moscow Region, Dubna)**

The office-laboratory building with a pilot production in each of two turns consists of 4 floors, with an attic floor.

The scientific-technological laboratories with a pilot production are on the second and third floors.

## **TECHNICAL AND ECONOMIC PARAMETERS OF THE PROJECT**

Site area	5950 m <sup>2</sup>
Construction area	3110 m <sup>2</sup>
<b>Number of floors</b>	<b>5 floors with an attic</b>
Total area	15040 m <sup>2</sup> , including:
The first turn	7460 m <sup>2</sup>
The second turn	7580 m <sup>2</sup>
Open parking place	76 cars

## **REGIONAL MEDICAL-DIAGNOSTIC CENTERS «NATURAL DOCTOR»**

The regional Medical-Diagnostic Centers «Natural Doctor» (MDC) provide consulting-diagnostic, medical prophylaxis services, methodical functions and cooperates with the medical prophylaxis centers of the industrial enterprises. Industrial drugstores produce ecologically pure homeopathic monopreparations. Homeopathic preparations are delivered to other drugstores of the region through a pharmaceutical warehouse.

An architectural basis of the 4-floor MDC is a modular four-storied building with a semibasement, designed from light metal structures of the factory manufacture.

The MDC premises and services are located as follows:

Floor 1 – a vestibule-entrance group of facilities with stairs, a lift and bathrooms, an industrial drugstore with appropriating facilities, a phyto-bar for 24 seats and a cafe for 28 seats, ramps in front of entrances - for invalids;

Floor 2 - medical-consulting cabinets and manufacture of homeopathic monopreparations under doctors' prescription;

Floor 3 - consulting, diagnostic and procedural cabinets, laboratories;

Floor 4 - a conference hall with partially open ceiling into the winter garden, administrative, methodical, etc. cabinets;

Floor 5 (dome) - a mini-greenhouse with vacation spots;

Cellar – a pharmaceutical warehouse, vent chambers and other auxiliary premises. The building is equipped with systems of ventilation, air-conditioning, water-, electro-, heat supplies and water drains.

All facilities on floors and in the cellar are provided with fire exits. The territory of the site is approved and planted.

#### **Brief Technical and Economic Parameters:**

<b>Building</b>		<b>Layout</b>	
Construction area	460 m <sup>2</sup>	Site area	0.21 Ha
Total area	1950 m <sup>2</sup>	Construction area	
Effective area	1750 m <sup>2</sup>	Asphalt and paving slab covering area	1220 m <sup>2</sup>
Architectural volume	6250 m <sup>3</sup>	Planting area	420 m <sup>2</sup>
Basement	1008 m <sup>3</sup>		

## **TYPICAL FUNCTIONAL STRUCTURE OF THE MEDICAL-DIAGNOSTIC CENTER «NATURAL DOCTOR»**

- 1. ADMINISTRATION**
- 2. TRAINING DEPARTMENT**
- 3. THERAPEUTICS DEPARTMENT OF FAMILY DOCTORS**
- 4. MEDICAL DIAGNOSTIC DEPARTMENT:**

- 4.1. psychotherapist;**
- 4.2. cardiologist;**
- 4.3. gastroenterologist;**
- 4.4. elementologist - dietician;**
- 4.5. allergist - immunologist;**
- 4.6. oculist, iridologist;**
- 4.7. maieutologist - gynecologist;**
- 4.8. urologist;**
- 4.9. cosmetician.**

- 5. DIAGNOSIS DEPARTMENT:**

- 5.1. The express train diagnostics (electropuncture, vegetative-resonant test);**
- 5.2. Functional diagnostics (electrocardiography, bicycling, spirometry);**
- 5.3. Microelement diagnostics;**
- 5.4. Ultrasonic diagnostics;**

- 5.5. Clinical laboratory (Blood, urine, immunoenzyme analysis).
6. CONSERVATIVE TREATMENT DEPARTMENT (Specialized)
- 6.1. ecological rehabilitation;
  - 6.2. ozone therapy;
  - 6.3. manipulation and massage;
  - 6.4. color and sonic therapy;
  - 6.5. acupuncture;
  - 6.6. aroma-and herbal medicine;
  - 6.7. balneary;
  - 6.8. procedural cabinet.
7. PHYTO BAR
8. INDUSTRIAL DRUGSTORE
9. PHARMACEUTICAL WAREHOUSE

## **Regional Pharmaceutical-Consulting Point**

### **«Natural Doctor»**

A modular two-storied building of the pharmaceutical-consulting point «Natural Doctor» with a Phyto-bar provides the population with free doctors' consultations in express-diagnostics and a complex of preparations for realization of integrative (compound) diagrams of preventive measures and treatment of diseases.

For the purpose of reduction of the construction term and installation of structures without damage to the environment and to the rhythm of the city life, the building of the pharmaceutical-consulting point «Natural Doctor» is designed from fast-assembled metal structures of factory-built.

The building has no cellar and traditional bases, which eliminates the need of a foundation ditch. The skeleton of a construction is mounted on metal piles, deepened in ground to the depth demanded by specifications.

The carcass of the building is made from standard steel structures, overlapping of the first and second floors - from profiled metal. The roof - from aluminium. The walls - panels of the "sandwich" type with external steel sheets of hot painting, internal facing - drywall. Internal painting and decorating (walls, ceilings and floors) are intended as factory finishing.

The building is equipped with systems of air conditioning, ventilation, water supply, electric supply, independent heating unit and water drain.

The ground floor is intended for a drugstore with a trading hall and a pantry, a toilet and open steel stairs to the 2nd floor.

The second floor will include a phyto bar with certain facilities, a doctor-adviser's cabinet and security service.

#### **Brief Technical and Economic Parameters:**

Site area	144 m <sup>2</sup>
Construction area	66.7 m <sup>2</sup>
Total area	128 m <sup>2</sup>
Effective area	96.4 m <sup>2</sup>
Architectural volume	475 m <sup>3</sup>