

## The Analytical Scaling Laboratory of new pharmaceutical ingredients

### Fact Sheet

- On 19th 2007 June Joint Stock Company *Grindeks* unveiled the new Analytical Scaling Laboratory that is the only laboratory of this kind in the Baltic States and one of the some in Eastern Europe.
- Laboratory project was developed within five years time; 3.2 million lats were invested in the realisation of the project. Within the frameworks of the project additional funding from EU European Regional Development Fund amounting 1.5 million lats was attracted to the project. Resources attracted to the project are the largest funding of ERDF allocated to single Latvian company.
- The new laboratory is a Custom Made project, as its concept was developed by *Grindeks*, based on market trend analysis and its future visions. The laboratory was designed and the equipment installed by the Czech company *GMProject*.
- The Analytical Scaling Laboratory of JSC *Grindeks* is universal, as several different substance synthesis processes may be tested in this laboratory. The laboratory has 140 items of different equipment (measuring vessels, reactors, centrifuges, filters, etc.), which may be differently combined, providing the most appropriate technological model for the production of a particular substance.
- The laboratory received the GLP (*Good laboratory practice*) quality certificate confirming that the work organization of the new laboratory corresponds to the highest laboratory standards of the world, thus, the results of chemical analyses performed at the laboratory will be recognized in the whole European Union.
- The personnel of the laboratory will include eight chemists-synthetics, four technologists and one manager – highly qualified and specially trained staff with a minimum of five years work experience in the chemical field. The students of the higher grades of Latvian higher educational institutions will be able to conduct their educational practice at the laboratory.
- The Analytical Scaling Laboratory is an intermediate stage between creation of pharmaceutical substances at the research laboratory and industrial production of these substances. The influence of an increasing synthesis scale on the quality of pharmaceutical product is analyzed at the laboratory. The laboratory will be used to particularize technologies and procedures thereof. The acquired information will be used in the stage of industrial production.
- As the quality requirements become stricter and competition in the pharmacy business increases, the investment in the development of the company becomes important. The Analytical Scaling Laboratory project was implemented to ensure unchanged product quality and the stable turnover growth of JSC *Grindeks*.
- Laboratory will secure stable growth of the sales of JSC *Grindeks* in the developed Western pharmaceutical markets, as well as the quality of the products respective to these high demanding markets. This will also be an advantage for the Latvian scientists – an ability to order synthesis of the new ingredients in this European class industrial laboratory.
- The benefits to JSC *Grindeks* from the new laboratory:
  - rise of work productivity – the consumption of time, materials and energy will be ensured by modelling the production process of new pharmaceutical products in industrial laboratory;
  - Development of the laboratory will significantly increase competitiveness of *Grindeks* in the European and USA markets– we will have the ability to develop, as well as put into manufacturing new pharmaceutical product technologies and attract foreign clients in a faster pace than our competitors
  - as the quality requirements for the pharmaceutical companies are constantly growing, *Grindeks* will be able to maintain quality standards in the context of the following 5-7 years;
  - possibility of attracting new customers will arise, especially concentrating on innovative biotechnological companies;
  - synthesis of expensive products in small amounts will be possible according to the *Good Manufacturing Practice* standards.