

Construction of pectin producing plant with the capacity 600 t per year

A. Project Opportunity Description:	
A1. Project Name:	
Construction of pectin producing plant with the capacity 600 t per year	
a. Short name:	
Pectin Production	
b. Full name:	
The organization in FEZ «Vitebsk» the production of dry pectin and pectin comprising products	
c. Summary description:	
It is planned to organize the building of the pectin production plant. The production is based on new, ecological, patented technology.	
A2. Progress Status:	
Business-plan is available. Investor is required. The organization of the enterprise is agreed by the Ministry of Health of the Republic of Belarus, State Belarusian concern of pharmaceutical and microbiological products production and realization, «Belgospishcheprom» concern.	
A3. Organizations involved and their roles:	
1) FEZ «Vitebsk» Administration: 50, P. Brovkiy Str., Vitebsk, 210605, Republic of Belarus. Kichigina Ekaterina Nikolaevna, tel: (+375-212) 26-01-66. Shevchenko Leonid Ivanovich, Head of the FEZ «Vitebsk» Administration, tel./fax: (+375-212) 26-08-02, e-mail: fez@vitebsk.by ; http://www.fez-vitebsk.by ; Krivickij Valerij, the initiator of the project, tel.: (+375-29) 518-84-33.	
A4. Project Description:	
The current project is aimed at the creation of pectin plant which will develop the pectin production in the Republic of Belarus. The realization of the project at the FEZ «Vitebsk» territory gives financial stability by using tax and customs privileges.	
A4a. Project cost (mln USD):	
4.0	
A5. Background / history / overall programme / related or similar projects:	
Pectin is a vegetable polysaccharide with a complex structure. One of the most important characteristics is its gelatinizing ability which is widely used in confectionary industry. The pectin ability to gelatinize with the low content of sugar and high pH allows to use it in production of milk and dietetic foodstuffs (for example people with diabetes mellitus). The main characteristic is the ability of pectin molecule to interact with ions of heavy and radioactive metals which are joint and took out from the organism. Because of this pectin is included in the ratio of people who live in polluted by radioactive nuclides environment and who deal with heavy metals.	
A6. Environmental impact summary:	
The proposed technology uses new technologies and excludes application of mineral acids. The project is friendly to the environment.	
A7. Possible obstacles/ problems/ risk assessment:	
The risk assessment for the project implementation is low.	
A8. Term of realization / term of recoupment (years):	
7 / 4,3	
A9. Project's branch:	
Food industry	
B. Capital Cost Items (additional requirements for project):	
B1. Project physical components	B2. Capital cost (mln USD)
Cost of building materials:	2.2
Purchase, maintenance and fetting of the equipment (Russia, Italy):	1.4

Costs connected with the organization:	0.3	
Circulating assets:	0.1	
Total:	4.0	
C. Capital Resources Available from Sponsors/ Proposers:		
C1. Resources 'in kind', grants, investments, equity / ownership, etc.	C2. Amount (mln USD)	
D. Required Financial Assistance:		
D1. Financing gaps, type of financial assistance required:		
Crediting.		
D2. Sources of finance	D3. Type of investment	D4. Amount (mln USD)
Foreign investment funds:	Credit:	4.0
D5. Financial/ International Institution Name:		
E. Demand (users) and revenues:		
E1. Type of users/ markets, volumes, pricing, revenues, quantifiable benefits/ savings:		
Domestic and foreign pharmaceuticals and food enterprises . Planned volume – 600 ton per year. Markets: Russia, Republic of Belarus. Calculated profit – 8,1 mln USD.		
E2. Revenues (Sales)	E3. Amount (mln USD)	
Incomes from sales:	12.3	
F. Operating and Maintenance Costs:		
F1. Cost components, strategies for cost recovery, operating organisations, subsidies, etc.:		
New approach of the project is in secretion of pectin from plant cell without strong mineral acids and alcohol. The technology is based on using of hydrodynamic cavitation. Activated demineralized water is used as extragent. The concentration and pectin substance purification is executed by the method of ultrafiltration. The basic costs are raw materials, costs for employees, taxes and taxations according to the legislation of the Republic of Belarus.		
F2. Cost Item	F3. Amount (mln USD)	
Raw materials and energy resources for technological purposes:	2.4	
Costs for employees:	3.0	
Other needs:	2.7	
Total:	8.1	
G. Net Income Value:		
G1. Net Income Value	G2. Amount (mln USD)	
Net profit:	4.2	
H. Project information source:		
H1. This form was completed by:		
Ekaterina Nikolaevna Kichigina, Chief expert in external economic relations and investments.		
H2. Organisation (address):		
FEZ «Vitebsk» Administration: 50, P. Brovky Str., Vitebsk, 210605, Republic of Belarus.		
H3. Tel/Fax/E-mail:		
Tel./fax: (+375-212) 26-01-66, fax: (+375-212) 26-08-02, e-mail: fez@vitebsk.by , www.fez-vitebsk.com		
H4. Date:		
March, 2007		
H5. Supreme Organization:		
FEZ «Vitebsk» Administration		