

A. Project Opportunity Description:
A1. Project Name:
Creation of hi-tech ecologically pure production on phosphogypsum processing
a. Short name:
Creation of hi-tech ecologically pure production on phosphogypsum processing
b. Full name:
Creation of hi-tech ecologically pure production on phosphogypsum processing
c. Summary description:
The objective of the project is the organization of modern production of gypsum binder of the brand G7-G13, the extraction of rare earth elements.
A2. Progress Status:
Pre-investment stage. Marketing research is being conducted for business-plan working out. A foreign investor is required for the project realization.
A3. Organizations involved and their roles:
1. Search for foreign investor for the project realization is being conducted. 2. State Establishment Free Economic Zone Gomel-Raton Administration is a project initiator; 17, Fedyuninskogo str., 246061, Gomel, Republic of Belarus Ludmila P. Bubeshko, Investment and Economic Activity Dpt. tel/fax: + 375 232 682461/682721, e-mail: invest@gomelraton.com
A4. Project Description:
Investment project supposes creation of a legal person and of the production on wastes processing of Gomel Chemical Plant. At present the technologies on phosphogypsum processing are studied on the example of wastes processing in the process of mineral fertilizers production in Germany and the Netherlands. Investment project business plan development has begun taking into account the organization of production of gypsum binder of the brand G7-G13. The possibility of the production of the critical construction materials is being studied, gypsum foam concrete and dry construction mixtures, porous gypsum wall materials, gypsum board sheets, gypsum fibrous plates, sound absorbing plates etc. included. The possibility of the complex processing with the extraction of rare earth elements (titanium oxide, ceric oxide, neodymium oxide, samarium oxide, europium oxide, gadolinium oxide, heavy group or rare earth elements including yttrium). The project cost and financial resources will be defined taking into account the range of the products.
A4a. Project cost (mln USD):
Around 100.0
A5. Background / history / overall programme / related or similar projects:
The volumes of the wastes available permit to create a large-scale production on construction materials manufacture. Gomel Chemical Plant tested the technologies of manufacture of the pressed phosphogypsum for construction purposes, of fodder phosphogypsum, of fodder complex additives and of organic and mineral fertilizers. In recent years a new direction has appeared in the construction, namely, deposition which means different production wastes introduction into the structure of construction materials which permits not only to improve the quality and strength of construction materials but also to improve environment. The project realization will permit to practically refuse from the natural gypsum stone import. The range of the scheduled construction materials will permit to substantially increase the

gypsum products list and to offer the delivery of high quality not expensive construction and decorative materials to the CIS-countries and Russian markets.

The rare earth elements' use:

1. Lanthanum is a catalyst used to crack oil; also used as a raw material for the production of optical devices (allows to remove optical distortion).
2. Ceric is a catalyst for exhausts of the automobiles (during the fuel incineration).
3. Gadolinium is used as a raw material in the atomic energetics.
4. Neodymium is used in the in the ceramic magnets production.

The project is both export oriented and import substituting.

A6. Environmental impact summary:

The present investment project realization will permit to substantially improve the ecological situation in the vicinity of Gomel Chemical Plant and to recultivate the land.

A7. Possible obstacles / problems / risk assessment:

The project realization in the Free Economic Zone will permit to decrease the degree of risk to its minimum.

A8. Term of realization / term of recoument (years):

Depending on the processing technology.

A9. Project's branch:

Construction materials production, rare earth elements production.

B. Capital Cost Items (additional requirements for project):

B1. Project physical components:	B2. Capital cost (mln USD):
Designing, construction, production organization	9.5
Technological equipment purchase (Germany, Austria)	90.0
Net current capital formation	0.5
Total	100.0
B3. Sub-projects by location:	B4. Project cost (mln USD):

C. Capital Resources Available from Sponsors / Proposers:

C1. Resources "in kind", grants, investments, equity / ownership, etc.:	C2. Amount (mln USD):
Own funds	-

D. Required Financial Assistance:

D1. Financing gaps, type of financial assistance required:

Foreign enterprise creation, crediting

D2. Sources of finance:	D3. Type of investment:	D4. Amount (mln USD):
Investor's funds	Direct foreign investments, credit	30.0

D5. Financial organizations, involved in project realization:

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E. Demand (users) and revenues:

E1. Type of users / markets, volumes, pricing, revenues, quantifiable benefits / savings:

Main consumers are enterprises of the construction complex of the Republic of Belarus, of the CIS-countries and Russian Federation.

E2. Revenues (Sales)	E3. Amount (mln USD):
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F. Operating and Maintenance Costs:

F1. Cost components, strategies for cost recovery, operating organizations, subsidies, etc.:

F2. Cost Item:	F3. Amount (mln USD):
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G. Net Income Value:

G1. Net Income Value:	G2. Amount (mln USD):
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H. Project information source:

H1. This form was completed by:

Ludmila P. Bubeshko, Investment and Economic Activity Dpt., FEZ Gomel-Raton Administration

H2. Organization (address):

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H4. Date:

June /2007

H5. Supreme organization:

FEZ Gomel-Raton Administration