

## Reconstruction of workshop N1, organization of production of fireproof bricks with dolomite powder on Obol ceramic plant

<b>A. Project Opportunity Description:</b>	
A1. Project Name:	Reconstruction of workshop N1, organization of production of fireproof bricks with dolomite powder on Obol ceramic plant
a. Short name:	Organization of production of fireproof bricks
b. Full name:	Reconstruction of workshop N1, organization of production of fireproof bricks with dolomite powder on Obol ceramic plant
c. Summary description:	The project foresees the Reconstruction of a workshop N1, to organize the production of fireproof bricks with dolomite powder used for civil and industrial construction
A2. Progress Status:	Business-plan is developed, expert remark of the Ministry of Economy is given, the technology of production is registered by the State Committee on Science till may 2010, reg N 140-PRO, 22.06.2005. Technical agenda developed, the experimental part of bricks is produced.
A3. Organizations involved and their roles:	1) The technology is outlined by NIICM (Scientific Institute of building materials ); 2) The project operations are performed by Orgtechprom company (Minsk ); 3) Business plan is formulated by Strojeconomica company; 4) Initiator of a project - Obol ceramic plant: 10, Lenina Str., locale Obol, Shumilino area, Vitebsk region, 211266, Republic of Belarus. Aksenova Valentina Andreevna, tel.: (+375-2130) 2-63-00, fax: (+375-2130) 2-64-91. E-mail: <a href="mailto:Obol_2003@mail.ru">Obol_2003@mail.ru</a> , <a href="mailto:Obol@tut.by">Obol@tut.by</a> ; 2) Vitebsk Region Executive Committee: 6, Gogol Str., Vitebsk, 210010, Republic of Belarus. Bobaren' Tat'yana Anatol'evna, tel.: (+375-212) 36-35-52.
A4. Project Description:	It is planned to do reconstruction of operating workshop N1 with the maximum usage of already mounted equipment, engineering infrastructure, workshop rooms of the plant. The technology suggested by the Institute propose to do kilning of dolomite before its clinkering, then to crush it, fraction it, mix with binding agent then pressed and kilned in tunnel Fire proof bricks with dolomite are used for relining of heat units of high temperature instead of periclase fire proof lining with chromium. Fire bricks with dolomite having the same physical and mechanical characteristics are next best of import analogues without chromium and have a competitive price. Fire proof bricks are used for lining of high temperature zones of turning round calciners when kilning cement clinker and lime, as well in metallurgy industry, at machine tool plants, City boilers and etc. Dry concrete mixtures with dolomite clinker are used for creation of heat proof concrete, used in metallurgy.
A4a. Project cost (mln USD):	15.4
A5. Background / history / overall programme / related or similar projects:	The plant was founded 75 years ago. The basic activity is to produce wall materials like front and inner bricks half dry, enlarged, as well as ceramic plastic plates. All products are certified.
A6. Environmental impact summary:	Doesn't affect the environment.
A7. Possible obstacles/ problems/ risk assessment:	Lack of own finance low profit of reconstruction activity. Risks because of outside competition who operate on the market.
A8. Term of realization / term of recoupment (years):	2 / 6,4

A9. Project's branch:		
Construction materials production		
<b>B. Capital Cost Items (additional requirements for project):</b>		
B1. Project physical components		B2. Capital cost (mln USD)
Purchase of equipment (Russia):		7.5
Mounting and construction:		7.6
Preinvestment study:		0.3
Total:		15.4
<b>C. Capital Resources Available from Sponsors/ Proposers:</b>		
C1. Resources 'in kind', grants, investments, equity / ownership, etc.		C2. Amount (mln USD)
<b>D. Required Financial Assistance:</b>		
D1. Financing gaps, type of financial assistance required:		
Crediting, creation of joint venture.		
D2. Sources of finance	D3. Type of investment	D4. Amount (mln USD)
Foreign investment funds:	Credit, direct foreign investments:	15.4
D5. Financial/ International Institution Name:		
<b>E. Demand (users) and revenues:</b>		
E1. Type of users/ markets, volumes, pricing, revenues, quantifiable benefits/ savings:		
Enterprises that produce building materials, metallurgy and machine tool plans, boilers, high amount of chromium in clinker deter the export of cement. Fire proof agents with chromium in Europe are replaced by dolomite or periclase one. Republic is reach with dolomite as a natural resource.		
E2. Revenues (Sales)		E3. Amount (mln USD)
Earnings:		28.33
<b>F. Operating and Maintenance Costs:</b>		
F1. Cost components, strategies for cost recovery, operating organisations, subsidies, etc.:		
F2. Cost Item		F3. Amount (mln USD)
Raw material:		3.22
Energy cost:		6.13
Personnel:		7.25
Amortization:		3.09
Other:		3.88
Total:		23.57
<b>G. Net Income Value:</b>		
G1. Net Income Value		G2. Amount (mln USD)
Net income:		4.814
<b>H. Project information source:</b>		
H1. This form was completed by:		
Aksenova Valentina, deputy Director.		
H2. Organisation (address):		
Obol ceramic plant: 10, Lenina Str., locale Obol, Shumilino area, Vitebsk region, 211266, Republic of Belarus.		
H3. Tel/Fax/E-mail:		
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H4. Date:		
March, 2007		

**H5. Supreme Organization:**

Vitebsk Region Executive Committee