

Making of production of solid axial hard-alloy tool with possibility of following regrinding after deterioration of cutting part

A. Project opportunity description

A1. Project name:

Making of production of solid axial hard-alloy tool with possibility of following regrinding after deterioration of cutting part

A1a. Short name:

Development in the production of solid axial hard-alloy tool

A1b. Full name:

Making of the production of solid axial hard-alloy tool with possibility of following regrinding after deterioration of cutting part

A1c. Summary description:

The project is realized on the network of the import-substituting program of metal cutter

A2. Project status:

The project is in the before –investment stage.

A3. Organization involved and their roles:

RUE “Gomel Plant of Special Tools and Industrial Equipment”, 1 Rabochay str., 246004; contact person – Deputy Production Manager on Perspective Production Development – Pojarkov Sergey Petrovich; Tel.: (0232) 59-14-63, Fax: (0232) 54-79-65, E-mail: office@gzcito.by

Supervisor of state authority: the Ministry of Industry of the Republic of Belarus

A4. Project description:

Currently PA “Gomselmash” implements more active a great quantity of advanced metal cutters of world leading firms. The equipments include high-speed machining centers, multipurpose lathe machining centers.

To support the work of previously mentioned equipment it is necessary a great quantity of tools, notably - with mechanical bonding of changeable disposable hard-alloy plates.

The manufacture of this tool linked with serious difficulties, because of RUE “GP SITO” doesn't have equipment possessing necessary technological opportunities.

- for production and regrinding of solid axial tool from hard alloy.
- installation for coating of high-strength covering HAUZER FLEXICOAT 850 – for coating of covering on the produced hard alloy tool.

Necessary equipment:

- grinding and sharpening center for making and tool grinding ELECTRONIC VISION, WALTER;
- installation for coating of high-strength covering HAUZER FLEXICOAT 850

A4a. Project cost:

1,6 million \$.

A5. Background /history/overall programe/related or similar projects:

RUE “Gomel Plant of Special Tools and Industrial Equipment” – shortened “SITO” – was established 1985 on the base of tool shops of Production Association “Gomselmash”. Despite legal and economical independence, giant of agricultural machine building is our main consumer and partner: 70% of all the production volume of the plant. Together with PA “Gomselmash” adapt new types of machines, arrange their lot production. All the achievements in the production of new engineering that PA “Gomselmash” gets for last years, improvement of their qualitative features are parted also by “SITO”, with that, notably, the production begins. No one machine part can be released without accessories, punches, tools produced in “SITO”. And this makes the production activity of Gomel Plant of Special Tools and Industrial Equipment unique. And there is one more significant moment in the characteristics of the plant “SITO”, that can't be omitted. All its achievements, market mobility, in great degree are explained by high professional potential of the staff, as engineering one than workers. Today the enterprise offers to its users practically all types of industrial equipment, cutter, gage. And the production has the highest quality level. First of all it is reached by dedicated work on technical renewal of basic asserts, without what the release of competitive product is impossible. For last two years electrical discharge machines, grinders, millers, lathes from the Czech Republic, Switzerland, Germany, Italy appeared on the production areas of the plant. They provide manufacture accuracy of industrial equipment from 0,01 till 0,005 mm. Specifically, there are so famous name of world levels as: “Hermle”, «Kellenberger», «Reform», «Omicron», «Deckel-Maho», Sharmiles technology («Roboform», «Robofil»). It goes without saying, the park of machine tools is added with domestic equipment, whether it is corresponded to world standards. So in the present moment the development of hard-alloy solid tool production (used in machine building for metal processing) is carried out on the machines of Vitebsk plant-producer (“Vizas”). Mills, centering made on it, are of high quality. It was estimated by first consumers – industrial engineers of “Gomselmash”, and we are sure that the quality will be estimated by the others. New modern equipment gives advantage not only in the quality, but in the reduction of the production terms, volume rise. The plant is ready not only to make the product, but also fulfill the development of technical documentation on the highest level. The programs with that our constructors and process engineer work: Pro/Engineer, Unigraphix. The enterprise actively cooperates with particularly all big machine-building plants and associations of Belarus, among them are the leaders of our industry: BMZ, MNPZ, MTW, “Belaruskali”, “BelAZ”, “GrodnoAzot” and others. Export rise is priority direction of last years. Russia is srategical partner of RUE “GP SITO” outside Belarus. In the deliveries to the foreign countries the deliveries to Baltic countries dominate - Latvia, Lithuania, Estonia. Among our customers are such enterprises of Russia and Ukraine as “Rostselmash”, “Volgotehservice”, “Gofrostal”, “Ukraine cardan” and others.

A6. Environmental impact summary:

There is no influence, the equipment corresponds to EU ecological standards

A7. Possible obstacles/problems/risk degree:

There is no own funds for the project realization, the direct foreign investments are need.

A8. Time period for project implementation and pay-back period (years):

2/7

A9. Project branch:

Agricultural machine building industry

B. Capital cost Items

B1. Project physical component:

B2. Capital cost USD million

grinding and sharpening center for making and tool grinding ELECTRONIC VISION, WALTER

0,4

installation for coating of high-strength covering HAUZER FLEXICOAT 850

1,2

Total

1,6

B3. Sub-project by location

B4. Capital cost USD million

C. Capital Resources Available (owner, associates, sponsors etc.)

C1. Resources, grants, investments, equipments, equity/ownership etc.

C2. Sum, USD million

Own funds

0

D. Required Investment, Deficient Funds

D1 Necessary Financing, Required Type of Financial Participation:

Crediting

D2 Source of finance

D3. Type of Investment

D4. Amount USD million

Investor`s Funds

Credits or direct foreign Investments

1,6

E. Demand (Users) and Revenues

E1. Type of Users, Volumes, Pricing, Revenues, Estimated Profit/Savings

PA "Gomselmash", Belarusian enterprises

E2. Financing Sources

E3. Revenues (Sales), mln \$

Income

0,33

F. Transaction and Operating Costs

F1. Costs Components, Capital Allowance Policy, Industrial Engineering etc.

F2. Cost item:	F3. Amount

G. Net Income Value	
G1. Net Income Value:	G2. Amount mln \$
Net income	0,33

H. Project Information Source:
H1. This form was completed by (name, appointment): Pojarkov Sergey Petrovich - Deputy Production Manager on Perspective Production Development
H2. Organization: RUE “Gomel Plant of Special Tools and Industrial Equipment”, 1 Rabochay str., 246004.
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H4. Date: March 2011
H5. Supreme organization: Ministry of Industry of the Republic of Belarus