Industrial engineering
thermomechanical modified
soft-wooded broad-leaved species
The purpose of the investment proposal is an establishment of production of the thermomechanical modified soft-wooded broad-leaved species.

**Project description**
- Engineered and patented a modulation technique of soft-wooded broad-leaved species with imparting unique properties. Thermomechanical modifying of the soft-wooded broad-leaved species performs under the high temperature and pressure at a short time and provides for the improvement of the wood properties to the level of hard-wooded broad-leaved species (for example oak, ash) without the use of chemical substances.

**Project scope**
- establishment of production with a high added value of products;
- expansion of the raw material base for manufacturing products of wood;
- import substitution of hard-wooded broad-leaved species;
- added-value wood conversion.

**Product**
- Densified lamina 4-6 mm thick.

**Raw material**
- Soft-wooded broad-leaved species such as alder, birch, and spruce that sprouts in the Republic of Belarus is worth to use as a raw material.

**Major consumers**
- Companies looking for alternative raw materials for the production of floor surfaces (parquet), furniture, stairs, and doors.

**Project benefits**
- the ability to embed a workflow into the established manufacture;
- environmentally friendly technology and environmentally sound product as a result.
Thermomechanical modifying of the soft-wooded broad-leaved provides for the improvement of the wood properties to the level of hard-wooded broad-leaved species.

The technology of thermomechanical modifying is environmentally friendly. It isn't chemicalized. Wood is modifying at a temperature of 100-110 °C by the use of irreversible deformation.

Factors dynamics of the forest fund of the Republic of Belarus.

Key indicators of the forest fund on the 1st January 2020:
- forested area – 8260.9 thousand hectares
- ratio of forest land to the total land area – 39.8%.
- total standing forest volume – 1796.0 million cubic meters.

The market has the following prices for the necessary resources:
- **aspen** – 26 BYN/м³ (12.3 USD/м³, 10.6 EUR/м³);
- **birch** – 30 BYN/м³ (14.2 USD/м³, 12.2 EUR/м³);
- **spruce** – 31 BYN/м³ (14.7 USD/м³, 12.6 EUR/м³).

Belarus is one of the top ten forest states in Europe (ratio of forest land to the total land area – 39.8%).

Conditions of participation

Investor contribution – 3 million dollars USA.
The Belarusian State Technological University will act as a partner on the Belarusian side.
Agency is ready to assist foreign investors interested in doing business in the Republic of Belarus:

- Presentation of information on investment opportunities, preferential regimes, and benefits offered, industries, legislation
- Presentation of actual figures on investment projects
- Selection and presentation of information on land and premises options
- Search for potential partners for the sale of investments project
- Arrangement of the meeting, negotiations with potential partners for establishing cooperation
- Providing platforms for negotiations and support
- Organization of visits to the Republic of Belarus (development of accommodation programs, assistance in obtaining a visa)
- Presentation of investor interests in negotiations with government representatives on the implementation of investment projects, as well as on improving business in the Republic of Belarus
- Post-investment support

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