Annex 2

for Auction Regulations

**Description of the object**

**AUCTION:**

The licensing or sale of intellectual property created as a result of research at the University of Latvia (UL) shall be in accordance with Article 39.5 of the Law on Scientific Activities.

The University of Latvia announces a written auction of the intellectual property consisting of the know-how "Technology for processing sheep wool fibres for their use in the development of multifunctional bio-filters".

**INVENTION REPORT:**

The invention consists of (know-how), a trade secret, developed within the framework of the European Regional Development Fund non-economic project No KC-PI-2020/7 "Technology for processing sheep wool fibres for use in the development of multifunctional bio-filters (LU registration No ESS2020/372)".

Know-how, trade secrets are written descriptions containing a detailed description of a new and unpublished wool fibre processing technology for processing wool fibre filter material to make it suitable for use in the manufacture of filters.

More detailed information on the invention can be provided by the project's contact person, Vanda Voikiva, vanda.voikiva@lu.lv and the initial commercialisation strategy can be commented on by the project's commercialisation expert, Solvita Kostjukova, solvita.kostjukova@gmail.com.

* Price range: according to the bidder's proposal
* Keywords: sheep wool; air filters; chemical treatment
* The study was carried out by: Faculty of Chemistry, University of Latvia
* Contact phone: +371 28322202 (Vanda Voikiva), +371 26742227 (Solvita Kostjukova)
* Contact e-mail: vanda.voikiva@lu.lv; [solvita.kostjukova@gmail.com](mailto:solvita.kostjukova@gmail.com)

**SUMMARY:**

The project developed a technology for processing sheep wool fibres that works as a deep cleaning method to prepare the fibres for use in air filters and also acts as a regeneration method for these filters, allowing them to be reused.

The technology is a three-step process based on the gentle separation of the top layer of wool fibres. The method thus allows the effective removal of dirt, soap residues and aerosol particles on and inside the wool fibre's top layer without damaging the filter material itself.

The advantages of sheep wool filters made with this technology:

- Biodegradable,

- Reusable,

- High capacity,

- Composed of renewable resources.

**THE PRODUCT OF THE INVENTION:**

Technology for the preparation of sheep wool fibre filter material for use in the development and regeneration of air filters.

**SECTOR:**

The invention relates primarily to the field of air filters, more particularly to airborne particle filters made from sheep's wool.

**OBJECT AND NATURE OF THE INVENTION:**

The object of the invention is to reduce the pollution caused by the air filter industry and to find a use for materials such as sheep's wool, which are currently discarded or disposed of on a massive scale. By making filters made of renewable and environmentally friendly materials such as sheep wool a competitive alternative to existing filters made of synthetic materials.

**INTELLECTUAL PROPERTY PROTECTION:**

Know-how, trade secrets are written descriptions containing a detailed description of a new and unpublished technology for processing wool fibre filter material to make it suitable for use in the development of filters.

**ADDITIONAL INFORMATION:**

Sheep wool air filters made with the developed technology were tested according to the general ventilation system filter standard ISO 16890 in certified laboratories - fiatec - Filter & Aerosol Technologies GmbH (Germany), and Eurofins Expert Services Oy (Finland). The filters were also tested on site in cooperation with Lafivents Ltd.

**INTELLECTUAL PROPERTY DOCUMENTATION:**

Additional documentation can be obtained by signing a confidentiality agreement with the University of Latvia.