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**SIA "GALLUSMAN"**  
**To the Chairman of the Board Arnis Veinbergs**  
Tīnūžu šoseja 17, Ikšķile, Ogres novads, LV-5052

**Regarding emissions from manure drying process**

According to the LOI (Letter of intent) agreement between the Adven group and GALLUSMAN, the parties have committed to assess cooperation in the implementation and maintenance of the technological equipment for the production of heat, wastewater treatment, as well as poultry manure drying for GALLUSMAN's egg production and processing plant complex project in Latvia.


Within the framework of this agreement, Adven experts, in cooperation with the potential equipment suppliers (incl. STELA Laxhuber GmbH and Centriar AB), have assessed optimal technical solutions to ensure continuous drying of poultry manure and reduction of emissions from the manure drying related processes.

According to the requirements of technological process and desirable emission levels, continuous flow manure drying equipment assessed as best fit. To ensure collection and treatment of exhaust air from the full manure drying cycle, a multi-stage system of chemical and physical filtration, which is capable of reduction of emissions such as ammonia, odors and particulate matters, to be integrated into the technological process.

Calculated maximum odor emission parameters from the drying of all poultry manure generated in the plant complex (up to 187 thousand tons annually or up to 513 tons daily) after the treatment in a multi-stage air filtering system which are designed to reach 99% efficiency, are as follows: odor concentration - 100 OUe/s, emission flow - 4034 OUe/s, emission temperature - 50°C.

Please be noted that the emission parameters and proposed technical solutions are indicative and based on best available knowledge of specific case and experience of industry professionals. Actual emissions shall be verified using on-site measurements during and after the commissioning of the equipment. A detailed technological solution of the manure drying cycle and exhaust air treatment equipment which shall ensure specified emission parameters will be developed during technical design stage.

  
Māris Kānītis  
Board member

  
Raivo Melsas  
SVP Baltics