

## Disposal and disinfection of organic waste of poultry farms

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### Abstract

Huge amounts of litter for a number of reasons, accumulated near poultry farms, have become the object of close attention of environmental and Supervisory authorities. Almost all poultry farms of the Russian Federation were in a difficult environmental situation, as the accumulated bird droppings has become a serious source of environmental pollution, because for the disposal of such volumes of bird droppings poultry farms today do not have even the simplest sets of equipment.

The emerging negative trend can lead in the very near future to an ecological disaster of farms with unpredictable negative consequences for the inhabitants of settlements, to the death of flora and fauna not only of poultry, but also of neighboring territories, it is quite possible the emergence of infectious and invasive diseases in humans, animals and birds.

Chelyabinsk region is famous all over Russia for its livestock enterprises, one of the main directions of which is poultry farming. The region is one of the main suppliers of poultry products to the nearby regions of the country.

With large-scale breeding of chickens, a large amount of food waste is formed, the leading of which is chicken manure.

The paper presents nanotechnology reception processing of a chicken dung, based on experimental data, the destruction of the eggs of Giardia, opistorhoz, ascarids in the Indus-Tserovani stochastic resonance nanocluster current splashes, with the passage of the organic colloidal system between carbon and graphite electrodes.

The paper presents a project of a semi-industrial installation for the disinfection of chicken manure, followed by its use as an effective colloid agricultural fertilizer without the use of heat treatment.

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