



DECON-PIT

Organic fertilizer

About us

◆ Decon-PIT is Kera-Tech's second animal waste management project since 2015. During 2016-2019, the technology of organic fertilizer production from animal manure using biological methods was adjusted and tested on an industrial scale.

◆ Independent testing of the biopreparation at industrial sites has shown absolute leadership among competitors.


◆ Kera-Tech owns a biopreparation production, laboratory, and three organic fertilizer production sites in partnership with industrial partners working in poultry and livestock breeding.



CFO. Danil Balykov

«Our company offers cooperation in the supply of organic fertilizer or its production».

Products

 Organic fertilizer based on poultry cage and bedding manure and enriched with beneficial microflora with biofungicidal properties.

Product 1 – Powder



- Nitrogen min 5.0%
- Phosphorus min 4.5%
- Potassium min 3.0%
- Organic matter

Product 2 – Granular



- Nitrogen min 5.0%
- Phosphorus min 4.5%
- Potassium min 3.0%
- Organic matter


Product 3 – Liquid



- Nitrogen min 6.0%
- Phosphorus min 4.0%
- Potassium min 3.0%
- Organic matter

Trace elements Zn, Cu, Fe, Co, Mn

Efficiency

Crop	No fertilizer	Mineral fertilizer		 Our organic fertilizer	
		Biological yield	Efficiency	Biological yield	Efficiency
Hulless oat	0.146 kg/m ²	0.166 kg/m ²	+13.7% ▲	0.19 kg/m ²	+26.7% ▲
Winter wheat	0.247 kg/m ²	0.286 kg/m ²	+15.8% ▲	0.36 kg/m ²	+46.6% ▲
Potato	6.11 kg/m ²	6.56 kg/m ²	+7.3% ▲	7.99 kg/m ²	+30.8% ▲
Rapeseed	0.220 kg/m ²	0.274 kg/m ²	+24.6% ▲	0.30 kg/m ²	+37.3% ▲
Beetroot	5.43 kg/m ²	3.64 kg/m ²	-33.0% ▼	8.94 kg/m ²	+64.4% ▲
Parsley	2.73 kg/m ²	3.43 kg/m ²	-25.6% ▼	3.94 kg/m ²	+44.3% ▲
Dill	2.03 kg/m ²	1.1 kg/m ²	-45.8% ▼	2.7 kg/m ²	+33.0% ▲

The biological activity of organic fertilizers is confirmed by agricultural enterprises and farmers using them for five years.

Production



- ◆ The proprietary technology for processing manure into organic fertilizers uses a unique biopreparation Decon-PIT and equipment of our partners. The processing takes only 21-30 days, even in cold regions, instead of the usual 2 years of composting.
- ◆ This technology allows complete disinfection of raw materials, significantly reduces odor, suppresses pathogenic microorganisms without additional chemical or heat treatments.
- ◆ Full technological support of the processes ensures production a stable product with high levels of organic matter.

Biopreparation



- ◆ Decon-PIT preparation is based on a consortium of natural microorganisms, adapted for symbiotic action against pathogenic microflora. It accelerates the manure humification processes.
- ◆ The preparation is safe for humans and animals.
- ◆ Decon-PIT based fertilizers improve soil microflora and have fungicidal properties due to soil microorganisms in its composition.

Technology

Our comprehensive solution allows the production of a stable product, and full supervision of processes helps livestock complexes to ease into a new activity.

Our biopreparation production output is **1 ton/day**.



To date, there are 3 production sites that produce powder, granular and liquid organic fertilizer based on our technology with the output starting from **20 tons a day**.

The launch of software for automation and control of production sites is scheduled for 2021.



Contacts

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