

Value Addition to Poultry Manure

Transforming waste into wealth

Value Addition to Poultry Manure transforms chicken manure into nutrient-rich organic fertilizer. Composting detoxifies the manure, enhancing soil fertility and reducing reliance on chemical fertilizers.



Manure accumulated on the poultry house floor (left) and finished compost ready for use as an organic fertilizer (right)



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✓ This technology is **TAAT1 validated**.

7-7

Scaling readiness: idea maturity: 7/9; level of use: 7/9

Cost: \$\$\$ **5,000–10,000 USD**

drying and pelleting equipment

30,000 USD

organic fertiliser production plant of 15 ton per hour

3,000 USD

15 m3 anaerobic digester able to process 300 kg of poultry manure per day



Open source / open access

Technology from

ProPAS

Commodities

Poultry

Sustainable Development Goals



Categories

Production, Pre-production, Practices, Animal waste management

Best used with

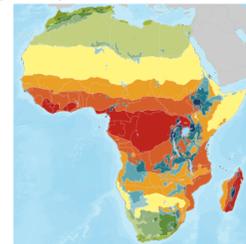
- [Biosecurity for Disease Prevention >](#)
- [Low-Cost Cage and Free-Range Containment >](#)

Tested/adopted in



Where it can be used

This technology can be used in the colored agro-ecological zones.



Problem

- **Pathogens and Unpleasant Odors:** Fresh chicken manure can contain harmful pathogens and emit an off-putting odor.
- **Underutilization:** Chicken manure is often unused due to these issues.
- **Environmental Impact:** Large-scale poultry farms generate significant manure, leading to unpleasant odors, groundwater pollution, and methane emissions.

Solution

- **Pathogen-Free Organic Fertilizer Production:** Converts chicken manure into safe, nutrient-rich organic fertilizer through composting, ensuring plant health and human safety.
- **Sustainable Environmental Impact Mitigation:** Transforms raw chicken manure into valuable organic fertilizer, reducing odors, preventing groundwater contamination, and mitigating methane emissions.
- **Cost-Efficient Waste Management:** Repurposes chicken manure into valuable organic fertilizer, reducing waste management costs and enhancing overall farm profitability.

Key points to design your business plan

For Farmers and Local Businesses:

Transform poultry manure into eco-friendly fertilizer for healthier soil and higher crop yields.

Steps to integrate this technology in your business:

- Source manure reliably.
- Set up composting facilities.
- Obtain necessary equipment.
- Train staff and adapt to local conditions.
- Research market and develop marketing strategy.
- Collaborate with local agricultural services.

Gender assessment 4

Climate impact 7



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