



TAAT e-catalog for government

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.





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Technology originally documented by

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 >

This technology is **TAAT1** validated.



Gender assessment

Problem



• Pathogens and Unpleasant Odors: Fresh

• Underutilization: Chicken manure is often

generate significant manure, leading to

and emit an off-putting odor.

unused due to these issues.

methane emissions.

chicken manure can contain harmful pathogens

• Environmental Impact: Large-scale poultry farms

unpleasant odors, groundwater pollution, and

Climate impact 6 7

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 project

Poultry farming boosts women's financial independence and leadership roles. This technology transforms waste into valuable organic fertilizer, reducing odors, groundwater contamination, and methane emissions. It also reduces reliance on chemical fertilizers, supporting climate goals. This project contributes to achieving SDGs 1 (poverty reduction), 2 (food security), 5 (gender equality), and 13 (climate action).

Key points for project step up:

- Assess & Select: Identify farmers interested in value addition with suitable farm size and resources.
- Train & Build Capacity: Train extension agents and farmers on composting and value-added products.
- Implement & Support: Organize workshops, establish demonstration plots, and provide technical support and financing access.
- Market Access & Sustainability: Connect farmers with buyers and evaluate project impact.



Where it can be used

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



Cost: \$\$\$ 5,000-10,000 USD

drying and pelleting equipment

30,000 USD

3.000 USD



Open source / open access

organic fertiliser production plant of 15 ton per hour

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

