



# Semi-Automatic Incubator for artificial hatching

Hatching Success, One Chick at a Time

This technology reproduces the natural incubation process on a larger scale. They are designed to accommodate 50 to 150 eggs at a time. They can be heated using kerosene or a battery-powered light bulb, offering an alternative to mains electricity.



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Technology from

**ProPAS** 

Commodities

Poultry

Sustainable Development Goals







Categories

Production, Equipment

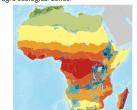
#### Best used with

- Genetically Improved Poultry Breeds for Optimized Meat and Egg Production >
- <u>Dual-Purpose Chicken for</u> Small-Scale Producers >





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



This technology is **TAAT1 validated**.

8.8

Scaling readiness: idea maturity 8/9; level of use 8/9

Gender assessment



## Climate impact

### **Problem**

- Limitation of natural incubation in producing chicks, with a capacity of only 10-12 chicks per
- · Difficulty in responding quickly to the market demand for chicks.
- · Risk of the spread of parasites and diseases in the natural incubation process.

## Solution

- · This technology has the ability to hatch day-old chicks in just 21 days, increasing the capacity to produce a large number of chicks in a short time in response to market demand.
- High success rate of 85-90% in artificial incubation, increasing production efficiency.
- · Reduced risk of the spread of parasites and diseases in the artificial incubation process.

## Key points to design your project

The Artificial Hatching in Semi-Automatic Incubators technology transforms poultry farming by accelerating chick production and ensuring a reliable supply. To integrate it in your project:

- · Conduct awareness campaigns, assist in selecting incubators, and develop marketing strategies.
- Evaluate quantity, consider delivery costs, and collaborate with institutes for implementation.
- · Training and communication support are vital, and association with other poultry farming practices enhances sustainability.

Cost: \$\$\$ 100—200 USD

Incubators

ROI: \$\$\$ 20 %

per cycle

150 usp 64-egg manual solar unit

200 usp fully automated 96 egg unit 500 USD

Hatchery start up requirement

Open source / open access

 $\bigcirc$  IP

