

Mushroom House



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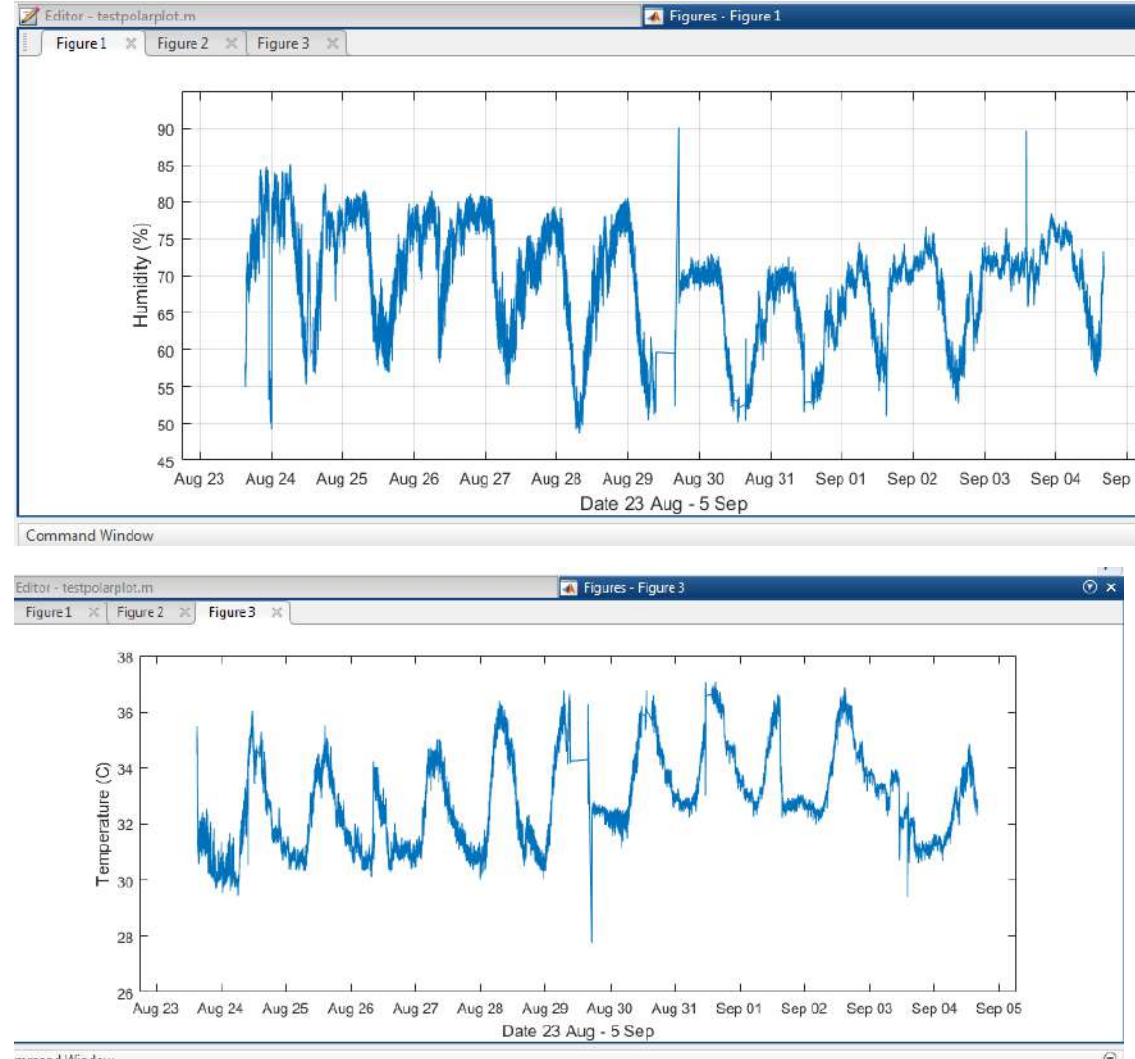
We have developed an automation mushroom house. We utilize technology into the mushroom house to optimize the mushroom growth.

The Mushroom House is included the followings:

1. **Strawhouse (25-50 m2)**
2. **Shelf and Humidity System**
3. **Electronics and Sensors**
4. **Software**



Using IOT technology



- We use sensor to accurately control and provide the desired level of humidity.
- We use IOT to monitor and control the system remotely

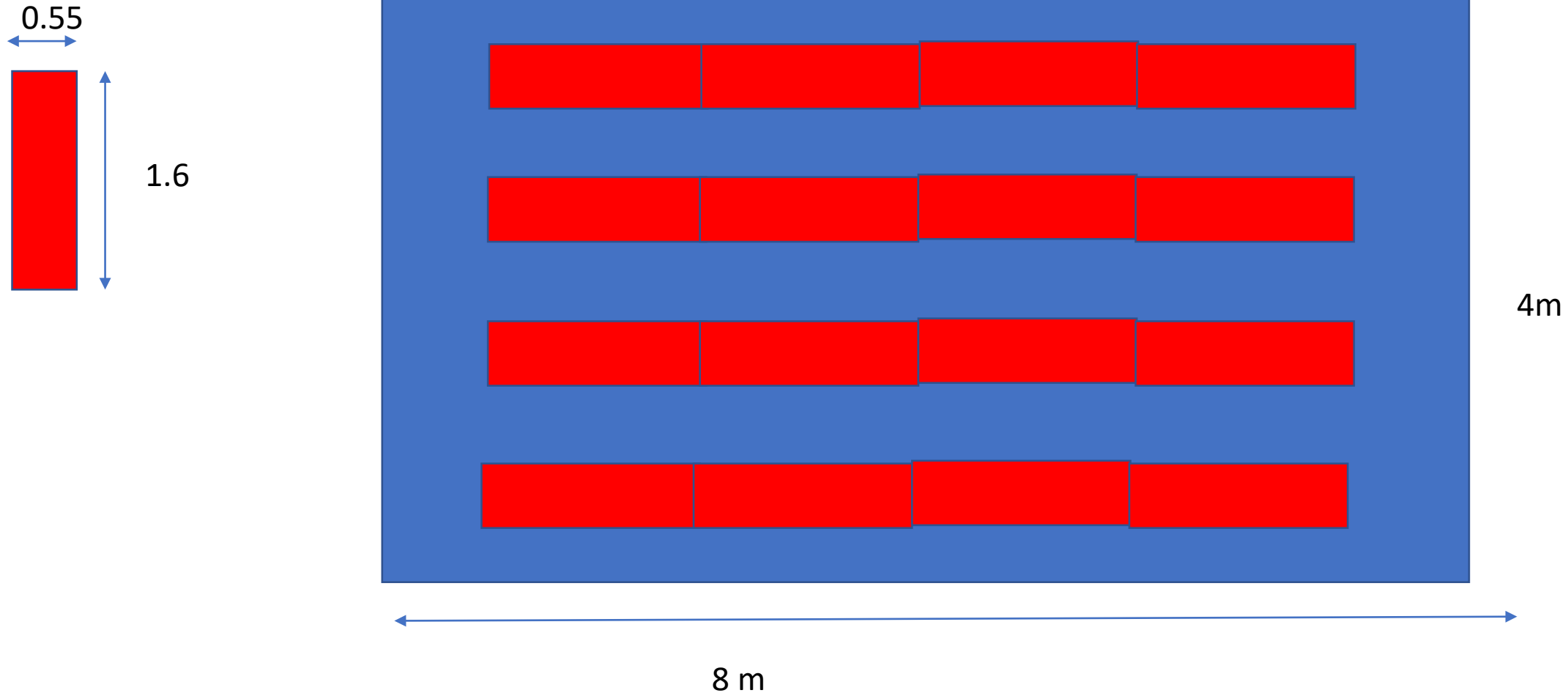
I. Strawhouse

- Strawhouse:
 - Roofing material: Coconut Leaves
 - Housing frame: wood
 - Area: 35-50m²
- Floor:
 - Material: thin concrete
 - Area: 35-50m²



Inside of a 32m² (8x4m) mushroom house

- 4 rows, each row has 4 shelves
- Each shelf has 5 levels with 2 sides.
- Each level can hold 40 mushroom bags on each side
- Each shelf can hold $40 \times 5 \times 2 = 400$ phoi
- Mushroom house can hold 6400 mushroom bags



II. Shelf and Humidity System

- Pipe:
 - Material: PVC
 - Size: 35-45m.
- Shelf:
 - Material: metal
 - Size: 55-65m



III. Electronics and Sensors

- Ultrasound Generator for mist
- Plasma Filter (optional)
- Regular Filters
- Electronic Controller
- Sensors

IV. Software

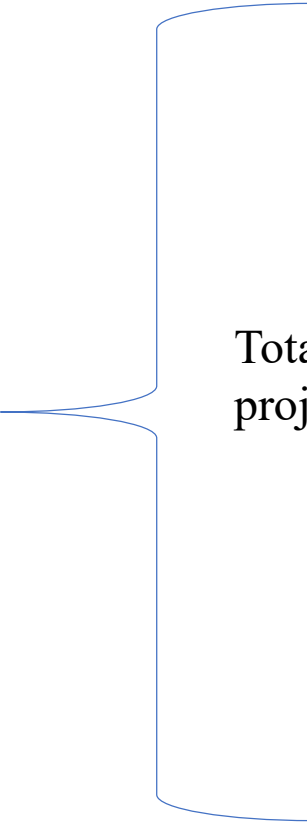
- *IOT system to monitor and control remotely.*



V. Time to complete the construction

○ Schedule for completion.

1. Strawhouse. 1-2 week
2. Frame – Humidity System.
 1. Personnel: 3 person
 2. Time for completion: 1 week.
3. Installation Electronics and Sensors
 1. Personnel: 1 person
 2. Time for completion: 1 week.
4. Software – Tesing
 1. Personnel: 1 person
 2. Time for completion: 2 days.
5. Support and trainer for the first harvest
 1. Personnel: 1 person
 2. Time for completion: 2 weeks.

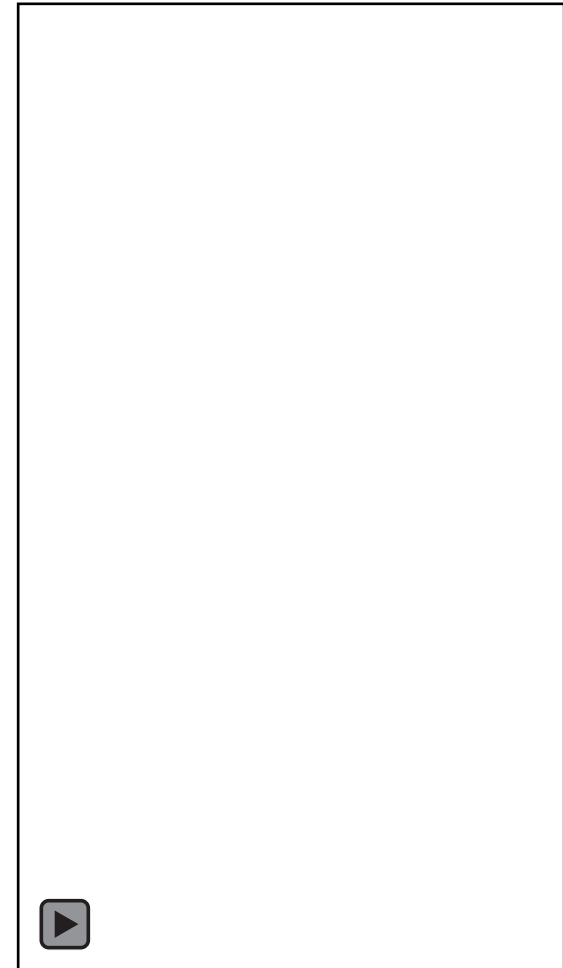


Total time to complete the project: 3 weeks

V. Estimated Cost

○ Estimated Cost.

1. Straw House. ~ 1000USD
 1. Concrete floor
 2. Coconut leaves roof
 3. Plastic to keep the humidity
2. Frame and Humidity System ~ 2000USD
 1. Water tank of 300 liters
 2. 16 metal mushroom shelves
 3. Humidity pipe
3. Electronics and Sensors~ 1800USD
 1. Electronics Controller Chip
 2. Sensors (humidity and temperature)
 3. Ultrasonic Generator
 4. Water Filter
 5. Plasma Filter (optional 1800USD, only if clean water is not available)
4. Software: 500USD
5. 6400 mushroom bags: 1200USD
6. Support and Trainer for 1 season: 2000USD
7. Tổng Cộng: 8500USD



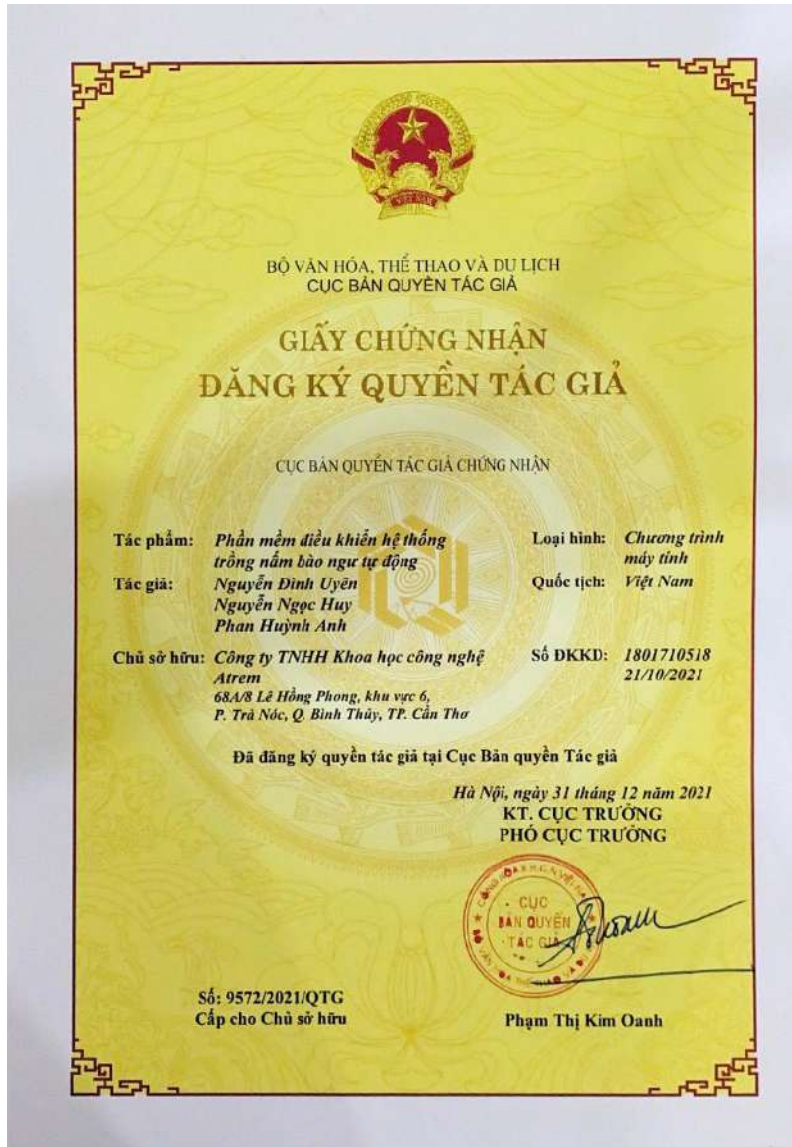
Revenue 1 season (3 months=1 season)

- 6,400 mushroom bags (4k VND) = 25tr
- Each season, 1 mushroom bag produces 200-300 gram mushroom
- 6,400 bags produce 1300-2000kg mushroom
- Market price for 1kg mushroom = 45k VND, 1 season = 60-90tr
- Revenue 1 season(3 months) = 90-25=75tr



Mushroom Bag

We have the copy right to our software.



Abalone Mushroom from our farm.

