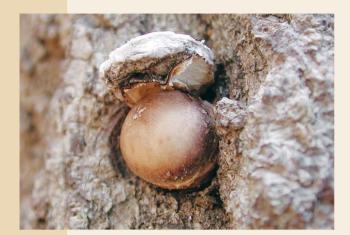
Fruitbodies













- $\begin{array}{c|c}
 1 & 2 \\
 \hline
 3 & 4 \\
 \hline
 5 & 6
 \end{array}$
- 1. Young fruitbody that comes out opening the styrofoam sealing
- 2. Mature shiitake fruitbody grown on log
- 3. Fruitbodies heading for sky (showing negative geotropism)
- 4. Fruitbodies grown on sawdust block
- 5. Fruitbodies from white synthetic log on the ground
- 6. Shiitake gills (still inrolled) and stipe

Shiitake Growing Facilities













- 1. Outdoor shiitake growing on log under trees and shading net
- 2. High cost shiitake growing house made of steel pipes, plastic sheet, shading net, watering hose & nozzles
- 3. Low-cost model made of bamboo, plastic sheet, rope and poles; covered with wood branches
- 4. High-cost model made of steel pipes, plastic sheet, shading net, bracket, etc.
- 5. Improvised recycled heating system: used boiler, fan and ducts are assembled.
- 6. Improvised recycled cooling system: radiator from a retired car, fan from wasted air condenser

1	2
3	4
5	6

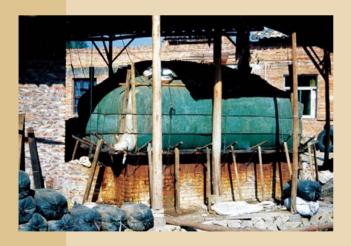
Substrate Preparation













- $\begin{array}{c|c}
 1 & 2 \\
 \hline
 3 & 4 \\
 \hline
 5 & 6
 \end{array}$
- 1. Tree felling and cutting in winter season, the tree's dormant season
- 2. Workers drilling inoculation holes on logs wear goggle for safety
- 3. Bag filling machine, shovel, gloves, plastic bags
- 4. Complicate filling machine (semi-automatic bagging machine)
- 5. Traditional steam sterilization kiln made of bricks and tarpaulin
- 6. Double door sterilizer made from steel panel

Spawning (Inoculation)













- 1. Low-cost clean bench made of wood and transparent panel
- 2. Improvised modern clean booth; made from sandwich panel rest after building incubation room, air filter from a retired truck, plastic sheet, tape
- 3. Inside a spawning booth; HEPA filter installed on the ceiling, dust-proof suit, protective mask
- 4. Spawning sawdust plug spawn into substrate bag (punching a hole and putting thimble spawn)
- 5. Spawning sawdust plug spawn into log
- 6. Inject the sawdust spawn into inoculation hole using spawning gun

1	2
3	4
5	6

Cultivation













- 1 2 3 4 5 6
- 1. Incubation of logs
- 2. Column method
- $3.\ Water\ injection\ through\ nozzle\ after\ removing\ plastic\ bags\ from\ browned\ sawdust\ synthetic\ logs$
- ${\it 4. \, Synthetic \, logs \, with \, plastic \, bags \, removed \, and \, water \, retaining \, membrane \, applied}$
- 5. Carriers, can be hung on a shoulder like a seesaw, on carts for moving the bags
- 6. Steel frame for soaking the sawdust block after each flush; operated by hoist

After Harvest













- 1. Manual trimming and grading harvested shiitake on wooden net
- 2. Grading belt
- 3. Sun drying of harvested shiitake on wooden net
- 4. Modern thermal drying machine
- 5. Boiling pot for parboiling harvested shiitake
- 6. Shiitake mushrooms brined in containers

3 4

- 6