

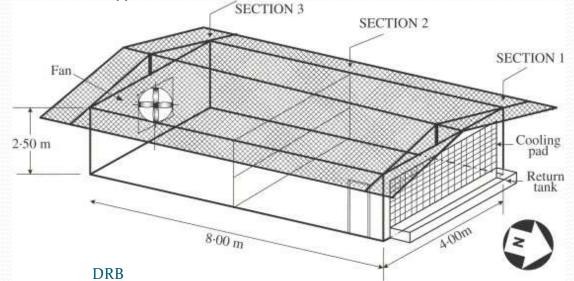
BY

Prof. Borhade D. R. Department of Zoology

### **Rearing Equipments:**

#### i)Rearing house:

- The rearing house should meet certain specification, as the silk worms are very sensitive to weather conditions like humidity and temperature.
- The rearing room should have proper ventilation optimum temperature and proper humidity.
- It should be ensured that dampness, stagnation of air, exposure to bright sunlight and strong wind should be avoided.



#### ii) **Rearing stand:**

➢ Rearing stands are made up of wood or bamboo and are portable.

These are the frames at which rearing trays are kept.

A rearing stand should be 2.5 m high, 1.5 m long and 1.0 m wide and should have 10 shelves with a space of 20 cm between the shelves.

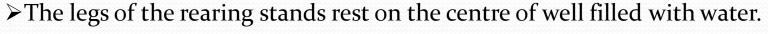


The trays are arranged on the shelves, and each stand can accommodate to rearing trays.

### iii) Ant well:

>Ant wells are provided to stop ants from crawling on to trays, as ants are serious menace to silk worms.

> They are made of concrete or stone blocks 20 cm square and 7.5 cm high with a deep groove of 2.5 cm running all round the top.





### iv) **Rearing tray:**

These are made of bamboo or wood so that they are light and easy to handle.

These are either round or rectangular.



# v) Paraffin paper:

> This is a thick craft paper coated with paraffin wax with a melting point of  $55^{\circ}$  C.

➢ It is used for rearing early stages of silk worms and prevents withering of the chopped leaves and also help to maintain proper humidity in the rearing bed.

#### vi) Foam rubber strips:

Long foam rubber strips 2.5 cm wide and 2.5 cm thick dipped in water are kept around the silkworm rearing bed during first two instar stages to maintain optimum humidity.

> Newspaper strips may also be used as a substitute.

# vii)Chopsticks:

These are tapering bamboo rods (1cm in diameter) and meant for picking younger stages of larvae to ensure the hygienic handling.

### viii) Feathers:

➢ Bird feathers preferably white and large are important items of silkworm rearing room.

➤These are used for brushing newly hatched worms to prevent injuries.



# ix) Chopping board and Knife:

> The chopping board is made up of soft wood it is used as a base for cutting leaves with knife to the suitable size required for feeding the worms in different instar stages.

#### x) Leaf chambers:

These are used for storing harvested leaves. The sidewalls and bottom are made of wooden strips.

≻The chamber is covered on all sides with a wet gunny cloth.

# xi) **Cleaning net:**

These are cotton or nylon nets of different mesh size to suit the size variations of different instars of the silk worm.

These are used cleaning the rearing beds, and at least two nets are required for each rearing tray.



### xii) Mountages:

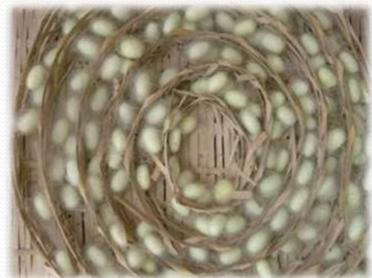
These are used to support silkworm for spinning cocoons. These are made up of bamboo, usually 1.8 m long and 1.2 m wide.

➢Over a mat base, tapes (woven out of bamboo and 5-6 cm wide) are fixed in the form of spirals leaving a gap of 5-6 cm.

≻They are also called chandrikes.

➢Other types of mountage such as centipede rope mountage, straw cocooning frames etc. are also used.





### xiii) Hygrometers and Thermometers:

> These are used to record humidity and temperature of the rearing room.

### xiv) Feeding stands:

These are small wooden stands (0.9 m height) used for holding the trays during feeding and bed cleaning.

>Other equipments like feeding basins, sprayer, and leaf baskets may also be required.

