

SYNOPSIS

I spent 15 weeks in-plant training period from February, 2006 to May, 2006 at Plant Tissue Culture and Bio Technology Laboratory of the Industrial Technology Institute and this book gives details about my in-plant training.

The main tasks of the section are;

- Propagation of plants on contract basis
- Research and development activities
- Training of technical personnel
- Consultancy
- Maintenance of two planhouses of ITI

The main function of the tissue culture laboratory is propagation of plants on contract basis, for small and medium scale entrepreneurs, who don't have facilities for a tissue culture laboratory, on a reasonable price. During my in-plant training period I got experiences on propagation of many of ornamental plants, aquatic plants and some other medicinal plants which have already developed protocols by the ITI.

In tissue culture sterilization procedures varies with the species and their habitat of growth. Normally the aerially grown explants are relatively easy to follow up sterilization than the explants grown in submerged conditions such as aquatic plants.

I also could intensively study the requirements of locating and designing a tissue culture laboratory and its managerial aspects including chemical and contamination management and the problems encountered in tissue culture and their possible reasons.