CHAPTER 3

SCOPE AND OBJECTIVES

Rationally designed, carefully standardized, synergistic traditional herbal formulations and botanical drug products with robust scientific evidence, can offer smart strategy for new drug candidates, to facilitate discovery process and also for the development of rational synergistic botanical formulations. Hence the primary objective of the work is to explore the Pharmacognostical, Phytochemical and Biological profile of the aquatic macrophytes, *Monochoria vaginalis* and *Monochoria hastata* to meet the demands of regulatory bodies, for the preparation of Monograph.

- Collection and authentication of the plant specimens.
- Establishing pharmacognostical profile, according to WHO guidelines.
- Phytochemical screening and determination of bioactive contents
- Isolation and characterization of possible phytoconstituents
- Quantification and validation of selected phytoconstituents, according to ICH guidelines.
- Establishing scientific data for the traditional claim of the plants.

As *M. vaginalis* and *M. hastata* are edible vegetable, these findings will increase their value as a food supplement and could help in producing health beneficial herbal medicine in future.