PREFACE

The present study, **SCREENING OF HERBAL DRUGS FOR ANTIMICROBIAL AND CYTOTOXICITY ACTIVITIES** was carried out to evaluate the phytochemical and pharmacological aspects of combined extracts of *Cissus quadrangularis* and *Aegle marmelos*. This study emphasizes the accuracy and efficacy of traditional remedies and that it inspires people to realize the importance of protecting natural resources for sustainable use. Chapter 1 provides information about significance of herbals, standardization, stability testing and regulatory status of herbal drugs. Chapter 2 shows the list of supporting articles which helps in carrying out this work. Chapter 3 expose that from the ethnomedical information and folk claims it is observed that the plant *Aegle marmelos* and *Cissus quadrangularis* have medicinal properties related to toxicity studies, anti-microbial, anti-cancer, anti-oxidant, anti-inflammatory and anti-convulsant which have not been scientifically validated and only some of the phytochemical studies have been carried out and reported. Therefore, the present investigation is concerned with the widely distributed indigenous medicinal plant *Aegle marmelos* and *Cissus quadrangularis*. Chapter 4 explains about the identification of chemical constituents and its isolation followed by spectral studies such as UV, FT-IR, NMR and MASS Spectroscopy. Chapter 5 reveals that the combined extracts of *Cissus quadrangularis* and *Aegle marmelos* can be considered as a fairly safe extracts based upon its toxicity profile. Chapter 6 shows the potential antimicrobial and *invitro* cytotoxicity activity of the two plant extracts. Chapter 7 enumerates that the combined extracts possess significant antioxidant activity. The results in Chapter 8 supports the potentiality of the plant extracts to produce good anti-inflammatory property. Chapter 9 exposes that these plants have anti epileptic activity which was determined by MES and PTZ induced convulsion methods.