PREFACE

“Mother Natural” has been serving the biological and ecological system of the earth since many eras before the existence of the human kind (Paleolithic Era, or "Early Stone Age"). Nature habitat was considered to be the first life form ever exists in the planet earth. In the Paleolithic era, human have civilized and pioneered the usage of the natural resources and started utilized for the basic and essential needs for his survival through Agricultural Cultivations Rebellion (8000 and 5000 BCE).

Natural products have been fascinating the science frontiers for many eras on its multifunctional ability on curing the ailments related to the human survival towards the natural calamities. The traditional knowledge on medicinal plants was practiced all over the world and become deep-rooted with religion, culture and community.

Indian system of traditional medicines is the oldest from of medicinal system in the world still followed today. The ancient text of “Athervaveda” dates back to 1200 BC which consists of medicinal information and method of preparations obtained for the nature sources and this system is still been followed as “Ayurveda” and “Siddha” medicines throughout India.

At present the natural medicine are globally supplied from Indians, Chinese, Egyptian, Romans and Greek. WHO have recognised and reported about 70 – 80% of the world populations relies upon the natural medicine for the treatment of many ailments.
Since the *allopathic* system of medicines are considered to produce many problems related with their synthesis, purification, production, availability, cost, complicated dosage regimen and majorly its side effects and toxicity, which makes the people to follow the traditional system of medicine.

In the recent years study have proven that there is an alarming rate of conversion of people towards the traditional or alternative system of medicine. Hence the research society has mainly changed their emphasis on exploring the traditional or folklore medicine. At present scenario many countries including India have focused mainly on exploring the traditional knowledge and medicine plants for the treatment and modern healthy lifestyle.

Hence the present research work incorporated in this thesis is focused to establish the traditional findings on natural medicinal plants and exploring its medicinal values. To investigating and unfolding the phytochemical and pharmacological importance on the traditionally used folklore medicinal plants and its extraction, *in-vitro* and *in-vivo* biological evaluations, isolation and characterisation of bioactive compound which is responsible for producing the pharmacological response.