PREFACE

It is obviously known that the rate of diabetes mellitus patients has been unanimously increasing at a rapid phase, as man/humans are competing with the pace of time. Though man has achieved a tremendous scientific and technological advancement to keep the nature at its beck and call, he is not able to control certain complicated diseases like diabetes and keep himself and hale and health. Many genius physicians and surgeons have been affording their strain and stress in doing researches to find remedies for curing these chronic diseases. But no remarkable remedial medicines have been worked out. Hence, in this regard the researcher has taken up the task of finding out a remedial medicine for controlling and curing diabetes, from herbal products.

The synthetic oral hypoglycemic agents can produce serious side effects. Natural remedies from medicinal plants are considered to be the cost effective and safe alternative treatments for various diseases. Medicinal herbs have consistently been considered a leading source of pharmaceuticals, employed in the treatment of various human diseases due to their high chemical diversity and broad biological functionality. Recently many plants have been explored and claimed to be useful for the treatment of Diabetes Mellitus by our earlier and present Research Groups.

The land of India is naturally endowed with abundant herbal plants, herbs and roots and since the primitive times, man has been utilizing these natural products for his sound, health and survival. Many researchers have found that many bio-herbal plants in India are enriched with extraordinary bio-medicinal properties. Which are bounteously provided remedial medicines to cure and heal man’s ills and ailments. The researcher has taken up the task of performing research experiment on herbal plants such as Murraya Koiengii (Curry leaves), Moringa Oleifera (Drumstick leaves), Mentha Aervensis (Mint Leaves) as they enrich with nutrients such as Energy, Protein, Vitamins and Minerals along with dried tomato, soya beans, barley and oats. All these bio-herbal products, which are naturally grown, were dried up, powdered and mixed. A mixture of 500mg was encapsulated.

This thesis contains four chapters: The first chapter contains introduction and significance of the study with comprehensive literature relating to the present investigation. The second chapter
deals with materials and methods adopted. The results obtained were incorporated in the third chapter followed by summary and conclusion in the fourth chapter.

Besides the supplementation of herbal capsules the patients were also suggested to follow required physical exercises as well as counseling on nutrition were also given.

More essentially, the researcher has taken much care in giving treatment under the careful supervision of a physician.

Before conducting the experimental research survey, the researcher has also conducted a pilot survey, to estimate and comprehend the response and responsiveness of the patients and physicians.

The researcher hopes that this experimental study would help and have a way for further research.

Herbal plants, herbs, and roots are naturally grown biological products. So, the study on these herbal products is surely in relevance to the discipline of herbal Biotechnology.

Lastly researcher regret for any grammatical and typographical errors in the dissertation as a result of oversight and request for pardon.

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