3. OBJECTIVE OF THE PRESENT WORK

Medicinal plants and their extracts are natural resources of compounds used for ethnomedicine and phytotherapy. They are also a source of natural products used in the development of new related compounds and drugs for conventional medicine. The increasing treatments interest herbal medicines requires a comprehensive assessment of research data in this field to help focus future efforts.

Popularity of Momordica charantia (MC) in various systems of traditional medicine for several ailments like, antidiabetic, antiviral, antitumor, antileukemic, antibacterial, anthelmintic, antimutagenic, antimycobacterial, antioxidant, antiulcer, anti-inflammatory, hypocholesterolemic, hypotriglyceridemic, hypotensive, immunostimulant and insecticidal properties

Its popular medicinal uses focused research so ever and the last few decades several studies that have been carried with Momordica Charantia Linn., using modern tools. Herbal drugs have potential therapeutic applications because of their effectiveness, less side effects and relatively low cost. Patients may prefer herbal drugs formulations if doctors readily make it available to them for common diseases. Currently available formulation containing Momordica charantia is Glucova tablet, Glycoban capsule, K-4 Tablet, Madhumehari Granules, Limit Capsule, Karela Capsule, Karela Ghanvati, Mersina Capsule etc.

Since there is incomplete phytochemical and pharmacological profile of Momordica charantia and it’s formulation, it is required to evaluate phytoconstituents in various extracts of MC and it’s formulation. It is also required to evaluate pharmacological properties of isolated active constituent of the Momordica charantia fruit and it’s formulation for acceptance of medicine regarding it’s dose, duration of therapy along with mechanism of action.

In present study has been planned to study phytochemical studies of various extracts, isolate & characterize active constituents and determine pharmacological properties like anti-inflammatory, Antihyperlipidemic, Antidiabetic and other activities of Momordica charantia fruit & it’s formulation.