WORK PLAN AND METHODOLOGY

- Literature search
- Collection and authentication of plant material.
- Extraction of plant material with solvents of increasing polarity.
- Qualitative chemical tests.
- Determination of physical constants.
- Selection of animals for pharmacological study
- Acute toxicity study of dried extract: Acute toxicity study shall be carried out according to OECD guidelines to find out lethal dose (LD50) of dried extract.
- Pharmacological screening of different extracts for antidiabetic activity.
- Selection of animal models for antidiabetic activity: Sterptozotocin/Alloxan induced diabetes.
- Parameters to be measured for antidiabetic activity: Blood glucose, Lipid profile & Body weight. After induction of diabetes animals will be divided into following groups.
  Group I – Control, Group II – Standard & Group III to VIII – Extract treated.
- Isolation and purification of bioactives (by preparative/column chromatography) from promising extracts.
- Pharmacological evaluation of purified constituents for antidiabetic activity
- Screening of pure compounds for the said pharmacological activity.
- Characterization of potential bioactive constituents using spectral data obtained from UV, IR, NMR & MASS spectroscopy.