4. WORK PLAN AND METHODOLOGY

1. Review of Literature related to phytochemical profile, pharmacological profile and formulation of *Momordica charantia* Linn.

2. Collection and Authentication of the *Momordica charantia* Linn Fruits.


4. Pharmacognostical studies.
   a) Macroscopical evaluation.
   b) Microscopical evaluation.
   c) Analytical parameters.
      - Ash value
      - Extractive value.
      - Loss on Drying

5. Collection of Marketed formulation containing *Momordica charantia* Linn.

6. Preparation of various extracts (petroleum ether extract, chloroform extract, alcoholic extract and aqueous extract) and qualitatively analyze them for the presence of phytoconstituents of *Momordica charantia* & it’s formulation.

7. Isolation & Characterization of Active Chemical Constituent from *Momordica charantia*
   a) UV Spectroscopy.
   b) FT- IR Spectrum.
   c) Mass Spectroscopy.
   d) NMR Spectroscopy.

8. Quantitative estimation of active chemical constituent in isolated extracts & marketed formulation containing *M. charantia* Linn. by HPTLC finger printing.