4. WORK PLAN & METHODOLOGY

1. Review of literature related to phytochemical profile, pharmacological profile and formulation of *Boswellia serrata*.

2. Collection and Authentication of the *Boswellia serrata* oleo gum resin.

3. Preservation and powdering of the *Boswellia serrata* oleo gum resin.

4. Pharmacognostical studies.
   
   a) Macroscopical evaluation.
   
   b) Microscopical evaluation (Leaf & Bark).
   
   c) Analytical parameters.
      
      ➢ Ash value
      
      ➢ Extractive value

5. Collection of Marketed formulation containing *Boswellia serrata*.

6. Preparation of various extracts (petroleum ether extract, chloroform extract, alcoholic extract and aqueous extract) and qualitatively analyzes them for the presence of phytoconstituents of *Boswellia serrata* & its formulation.

7. Isolation & Characterization of Active Chemical Constituent from *Boswellia serrata* by-
   
   a) HPLC
   
   b) FT-IR Spectrum.
   
   c) GC - Mass Spectroscopy.

8. Quantitative estimation of isolated boswellic acids from plant & marketed formulation containing *Boswellia serrata* by HPTLC finger printing.