Plan of Work and Methodology

1. Literature review
   This will be a continuous process from starting till the finalization of work. Literature search about disease, plant, and methods shall be done from eBooks, e-journals, books of medicinal plants of India, e-sources of review articles and patents, website.

2. Collection and Authentication of plant material
   Drug will be procured from the market and seeds will be identified by a botanist.

3. Pharmacognostical Evaluation
   It will be done according to methods mentioned in WHO guidelines.

4. Phytochemical evaluation
   Successive extraction will be done by using soxhlet apparatus and perform phytochemical tests and chromatographic studies by TLC, HPTLC of these extraction. GC, GC-MS of volatile oil and Protocatechuic acid will be estimated by HPTLC. Total phenolic content and Total flavonoids content will be estimated by UV Spectrophotometry in Methanol and Acetone extracts.

5. Isolation and characterization of Marker (1,8-Cineole)
   Isolation of marker will be carried out by column chromatography and it will be characterized by Melting point & Boiling point, Confirmatory tests as per British Pharmacopoeia, GC–MS, I.R. fingerprinting.

6. Pharmacological Evaluation:
   Pharmacological evaluation will be performed by using animal models for metabolic disorder.