CHAPTER III
3. PLAN OF WORK

Collection and authentication of the plant material (Leaf)

Evaluation of pharmacognostical & physico-chemical parameters

Preparation of various fractions using n-hexane, chloroform, ethyl acetate, n-butanol and water

Preliminary phytochemical evaluation of various fractions & quantification of phenol and flavonoid content

Quantification of flavonoid content in the selected fraction using HPLC method

Development of a topical formulation with selected fraction

Compatibility study of fraction with excipient

Evaluation of wound healing activity of selected fraction by fibroblast proliferation assay and cell migration assay

In vitro antimicrobial activity of various fractions by agar well diffusion method

In vitro antioxidant activity of various fractions by DPPH & Nitric oxide radical scavenging methods

Stability study of the formulation as per ICH guidelines

Acute dermal toxicity study of the formulation

Evaluation of wound healing activity of the formulation using excision and incision model

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