3. AIM AND OBJECTIVES

3.1 AIM

- To develop and evaluate a herbal formulation for wound healing property.

3.2 OBJECTIVE

- To authenticate the plant *Urena lobata* by pharmacognostical methods.
- To carry out in vitro studies of the extracts *viz*
  - Antioxidant activity
  - Wound healing activity of the effective extract using
    - HaCaT cell cultures
    - Fibroblast proliferation assay in 3T3 by MTT method
- To prepare the nano based extract using the selected extract and its validation
- To formulate an ointment using nanosized and original extracts separately and to determine the stability of both
- To evaluate the preclinical wound healing activity for both nano based ointment and extract based ointment in rat models