

AIM AND OBJECTIVE

The literature survey reveals the potentiality of the plant *Carmona retusa* regarding medicinal values, phyto-constituents as well as the biological activities. So this plant was chosen for the present study.

The following are the aim and objective of the present study:

- ❖ To conduct pharmacognostical studies on the whole plant of *Carmona retusa* (Vahl) Masam., which includes macroscopical and microscopical studies of root, stem and leaves of the plant. The determination of leaf constant such as stomatal number, stomatal index, veinlet termination number, vein-islet number and palisade ratio are also to be studied.
- ❖ To evaluate the organoleptic and physico-chemical parameters such as foreign matter, loss on drying, total ash, water soluble ash, acid insoluble ash, extractive values of alcohol and water.
- ❖ To carry out the quality control parameters such as microbial load, heavy metals, aflatoxins and pesticide residues.
- ❖ To carry out the preliminary phyto-chemical analysis of alcoholic extract of root, stem and leaves of the plant.
- ❖ To evaluate the TLC/HPTLC finger print profile of the n-hexane, chloroform and alcohol extracts of root, stem and leaves of the plant.
- ❖ To evaluate cytotoxicity analysis of the plant using vero cell lines.
- ❖ To evaluate acute toxicity studies and to investigate the pharmacological activities viz. analgesic, anti-inflammatory and wound healing activities of the alcohol extract of the root, stem and leaves of the plant.
- ❖ To evaluate the antimicrobial activities of alcohol extracts of root, stem and leaves of the plant and determination of MIC value.