OBJECTIVES OF THE PRESENT WORK

Multiple crude drugs used in hair loss i.e., The fruits of *Embelica officinalis*, Leaves of *Bacopa monnieri*, *Tridex procumbens*, *Eclipta alba*, *Ginkgo biloba* leaf, *Lawsonia alba*, *Rosmarinus officinalis*, *Glycyrrhiza glabra*, Seeds of *Trigonella foenugraecum*, *Grape seeds*, *Cuscuta reflexa roxb.*, have been developed, to manage the hair loss, but no effective treatments for stress induced alopecia are available at present. Many researchers are still indulged in finding out the effective remedies for the treatment of alopecia in such a manner that produce fewer side effects, be economic & easily available to patient. A lot of work has already been done toward this direction in which noteworthy is- development and evaluation of poly herbal ointment of *Embelica officinalis* (Fruits) extract (5% w/w), *Centella asiatica* leaf, *Aloe vera* leaf extract (5% w/w), *Ocimum sanctum* leaf extract (5% w/w), *Eclipta alba* extract (5% w/w) in hydrophilic USP base (Ritu Jain et al.,2011), poly herbal formulation of *Citrus limonis* (2%), *Cuscuta reflexa* (10 parts), *Embelica officinalis* (4 parts), *Centella asiatica* (4 parts), *Allium cepa* (5 parts), *Lawsonia inermis* (2 part), *Azadirachta indica* (5 part), *Eclipta alba* (5 part), *Ocimum sanctum* (3 part) and *Eugenia caryophyllus* (4 part) incorporated in olive oil etc. This research work would be an attempt to collect some experimental evidences, use of herbs, like *Hibiscus rosa-sinensis*, *Calotropis spp.*, and their polyherbal formulation with the potential of preventing hair loss in such case of stress-induced alopecia. In the present era, we have various types of allopathic drugs to treat hair loss but they have many side effects. From the above description of medicinal plants and herbal formulation which are now available in the market for the treatment of alopecia, it is expected that these herbal drugs and their formulations would be beneficial for society to eradicate this problem & their further use would also be expected. The advanced research may isolate some other beneficial compound from natural origin which has to eradicate the hair loss problem. Hence, it is advisable that use of herbal product as compared to synthetic products is safe.

The objectives of present study are to investigate the effect of *Hibiscus rosa-sinensis and Calotropis spp.* in experimental animal model and its related risk factors. The present study will also investigate the toxicological evaluation of *Hibiscus rosa-sinensis, Calotropis spp.*
polyherbal formulation. The study mainly contributed by finding the phytochemical constituents responsible for its activities.

Scope of present study

1) It is quantinental available at low cost.
2) It will be better substitute against commercially available agent.

It is worthy of exploring the possibility of employing the therapeutic advantages of *Hibiscus rosa-sinensis* & *Calotropis spp.* as a component of drug formulation. This will be a modest approach if researcher look in broader sense employing *Hibiscus rosa-sinensis* and *Calotropis spp.* and its component in a number of pharmaceutical preparations and it is worthy of mentioning that the area is till virgin and practically on explore.

Studies need to be initiated to evaluate its stability for use in several pharmaceutical preparations.