WORK PLAN AND METHODOLOGY

1) Literature review:
Related to antiviral disease, transdermal drug delivery systems, drug formulations, iontophoresis, methods to prepare formulations, drug profile, and excipients profile

2) Drug identification:
Drug identification is to be done by IR spectroscopy.

3) Preformulation study of drug:
- Solubility
- Partition co-efficient
- Drug-excipient physical incompatibility

4) Preparation of drug formulation:
Gel formulations to be prepared by using selected polymer like carbopol. Chemical permeation enhancers like menthol, PEG derivative, N-methyl-2-pyrrolidone and other excipients

5) Evaluation parameters of prepared formulation:
- Physical appearance
- Drug content
- Spreadability test
- pH
- Drug diffusion through skin
- Viscosity measurement
- Skin irritation study
6) *In vitro* drug permeation study of formulation:
   - By using animal skin (rat)
   - Franz diffusion cell
   - Iontophoretic battery device

7) Stability testing of formulation:
   As per ICH guidelines