Study Design
Whole study is planned to generate data from laboratory experimentation as per following methodology.

1. Selection of anti-hypertensive drug, polymer(s) and other pharmaceutically acceptable excipients
2. Preformulation studies and analytical method selection/development
3. Development and optimization of ER formulation
4. Characterization of ER formulation:
   a. Fourier-transform infrared (FTIR) spectroscopy and/or
   b. Scanning electron microscopy and/or
   c. Differential scanning calorimetry (DSC)
5. Evaluation of ER formulation
   a. Hardness
   b. Friability
   c. Drug Content
   d. Disintegration Time
5. In vitro drug release studies
6. Stability studies as per ICH guidelines
7. In vivo evaluation
Methods of collection of data

The whole study is divided into six phases to generate data.

Phase – I : Literature survey, selection of anti-hypertensive drug, polymer(s) and other pharmaceutically acceptable excipients.

Phase – II : Preformulation studies & analytical method selection /development of drug.

Phase – III : Development and optimization of ER formulation

Phase – IV : Characterization of ER formulation

Phase – V : Evaluation of ER formulation

Phase – V : in vitro drug release studies and stability studies as per ICH guidelines.

Phase – VII: in vivo studies in suitable animal models